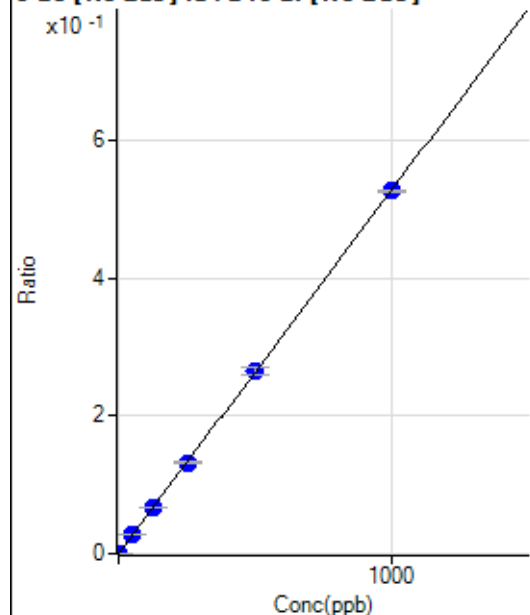


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021521MS.b\
Analysis File: P8021521MS.batch.bin
DA Date-Time: 2021-02-15 13:50:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-02-15 11:24:55
2	006CALS.d	S02	2021-02-15 11:28:08
3	007CALS.d	S03	2021-02-15 11:31:18
4	008CALS.d	S04	2021-02-15 11:34:30
5	009CALS.d	S05	2021-02-15 11:37:38
6	010CALS.d	S06	2021-02-15 11:40:43
7	011CALS.d	S07	2021-02-15 11:43:41
8	013CALS.d	S08	2021-02-15 11:50:48

9 Be [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67.99	0.0001	P	32.8
2	☐	1.000	1.034	614.56	0.0006	P	5.1
3	☐	50.000	51.024	27032.60	0.0270	P	1.8
4	☐	125.000	126.357	67854.42	0.0668	P	2.0
5	☐	250.000	250.751	135918.39	0.1326	P	1.6
6	☐	500.000	502.483	272869.52	0.2656	P	4.1
7	☐	1000.000	998.350	542174.37	0.5276	P	0.4
8	☐			109.98	0.0001	P	8.0

$$y = 5.2838\text{E-}004 * x + 6.8238\text{E-}005$$

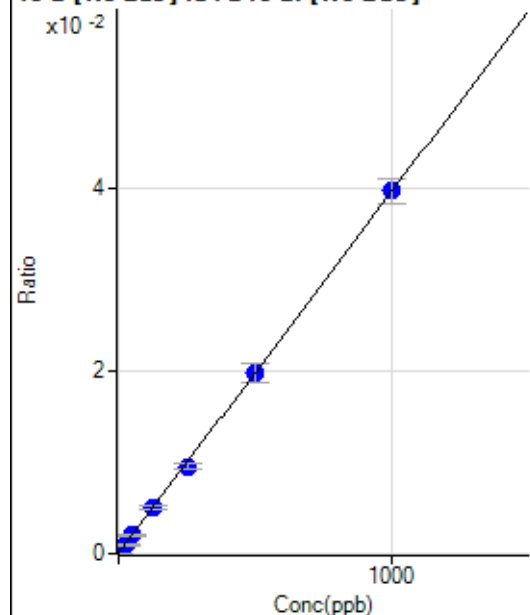
$$R = 1.0000$$

$$DL = 0.1269$$

$$BEC = 0.1291$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67.99	0.0001	P	9.2
2	☐	25.000	22.256	949.85	0.0009	P	10.8
3	☐	50.000	49.146	2015.08	0.0020	P	7.8
4	☐	125.000	124.126	5054.55	0.0050	P	7.7
5	☐	250.000	240.076	9817.35	0.0096	P	6.8
6	☐	500.000	499.057	20347.35	0.0198	P	10.3
7	☐	1000.000	1003.173	40867.03	0.0398	P	7.0
8	☐			2053.74	0.0021	P	3.1

$$y = 3.9571\text{E-}005 * x + 6.8229\text{E-}005$$

$$R = 0.9999$$

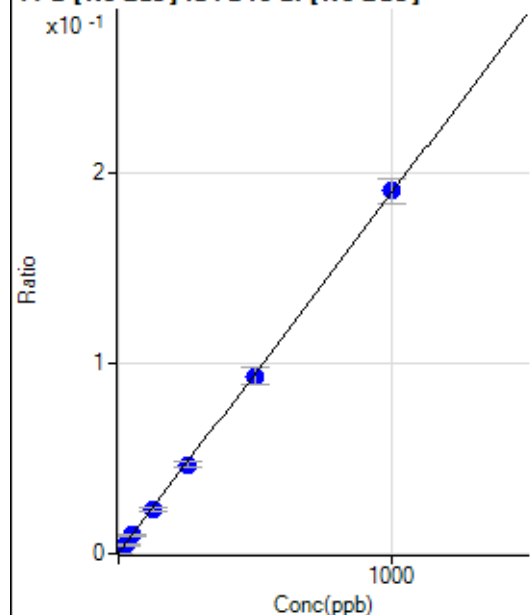
$$DL = 0.474$$

$$BEC = 1.724$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	213.29	0.0002	P	13.7
2	☐	25.000	23.072	4596.49	0.0046	P	7.6
3	☐	50.000	49.622	9639.27	0.0096	P	6.2
4	☐	125.000	123.149	23951.42	0.0236	P	7.7
5	☐	250.000	246.050	48128.73	0.0469	P	5.2
6	☐	500.000	491.536	96002.32	0.0935	P	9.9
7	☐	1000.000	1005.518	196346.92	0.1911	P	7.1
8	☐			9904.71	0.0101	P	3.8

$$y = 1.8979\text{E-}004 * x + 2.1401\text{E-}004$$

$$R = 0.9999$$

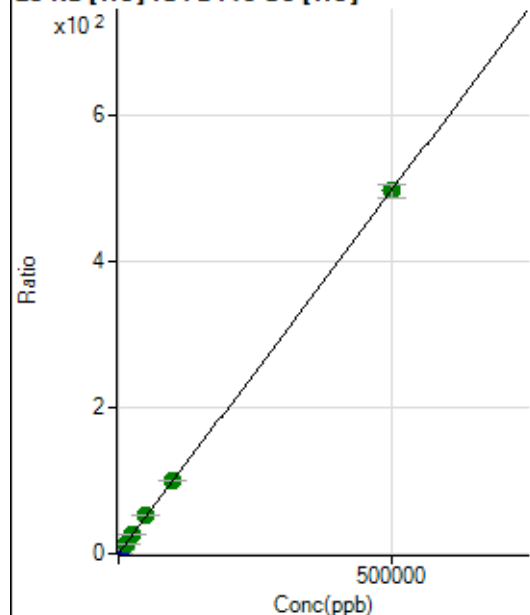
$$DL = 0.463$$

$$BEC = 1.128$$

Weight: <None>

Min Conc: 0

23 Na [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20467.60	0.2392	P	0.8
2	☐	500.000	529.923	66192.08	0.7664	P	2.5
3	☐	5000.000	5219.736	478700.55	5.4321	P	0.7
4	☐	12500.000	12820.757	1144475.24	12.9941	A	2.6
5	☐	25000.000	25730.467	2244696.90	25.8374	A	2.5
6	☐	50000.000	52245.588	4463951.32	52.2162	A	1.7
7	☐	100000.00	100193.03	8701716.34	99.9172	A	2.1
8	☐	500000.00	499690.06	43138544.37	497.3607	A	3.4

$$y = 9.9486\text{E-}004 * x + 0.2392$$

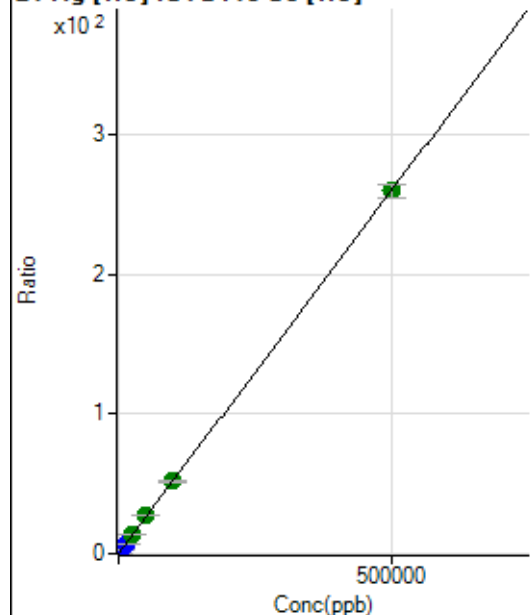
$$R = 1.0000$$

$$DL = 5.608$$

$$BEC = 240.5$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	497.24	0.0058	P	13.6
2	☐	500.000	508.986	23391.45	0.2708	P	2.6
3	☐	5000.000	5258.481	241799.68	2.7439	P	1.0
4	☐	12500.000	12969.960	595366.78	6.7594	P	1.0
5	☐	25000.000	25719.854	1164007.58	13.3984	A	2.2
6	☐	50000.000	53371.436	2376214.26	27.7968	A	2.1
7	☐	100000.00	100013.50	4536239.69	52.0837	A	1.6
8	☐	500000.00	499609.81	22563569.78	260.1567	A	3.6

$$y = 5.2071\text{E-}004 * x + 0.0058$$

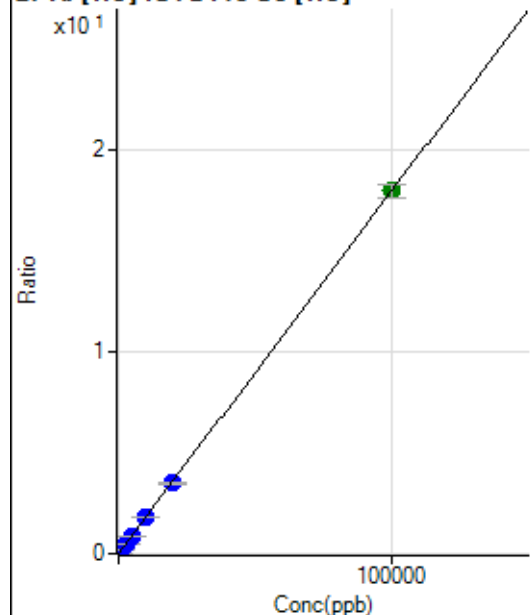
$$R = 1.0000$$

$$DL = 4.565$$

$$BEC = 11.17$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	469.53	0.0055	P	2.9
2	☐	20.000	20.750	796.18	0.0092	P	1.9
3	☐	1000.000	992.542	16179.87	0.1836	P	0.3
4	☐	2500.000	2443.495	39102.24	0.4440	P	1.9
5	☐	5000.000	4961.381	77826.96	0.8958	P	1.6
6	☐	10000.000	10096.398	155358.91	1.8172	P	1.5
7	☐	20000.000	19390.378	303520.49	3.4850	P	2.0
8	☐	100000.00	100115.70	1558691.10	17.9708	A	3.4

$$y = 1.7945\text{E-}004 * x + 0.0055$$

$$R = 1.0000$$

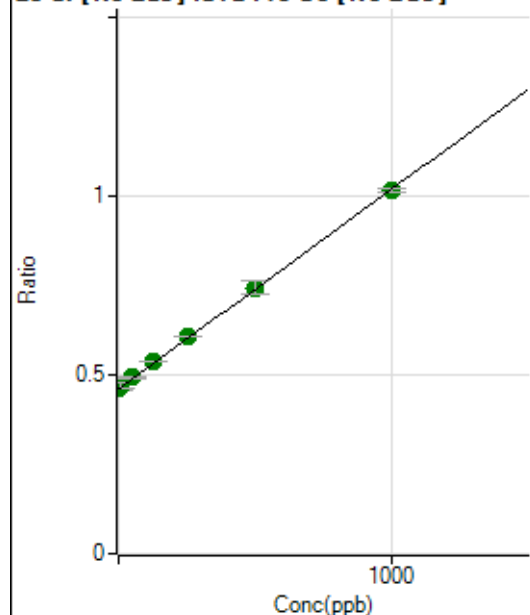
$$DL = 2.688$$

$$BEC = 30.58$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	935921.96	0.4602	A	0.8
2	☐	10.000	14.084	956343.03	0.4681	A	3.6
3	☐	50.000	58.532	1009859.42	0.4929	A	1.2
4	☐	125.000	136.766	1102298.57	0.5366	A	0.5
5	☐	250.000	264.843	1283991.85	0.6081	A	0.4
6	☐	500.000	506.634	1592599.32	0.7430	A	4.8
7	☐	1000.000	991.034	2187558.66	1.0134	A	0.9
8	☐			974246.83	0.4515	A	0.8

$$y = 5.5824\text{E-}004 * x + 0.4602$$

R = 0.9998

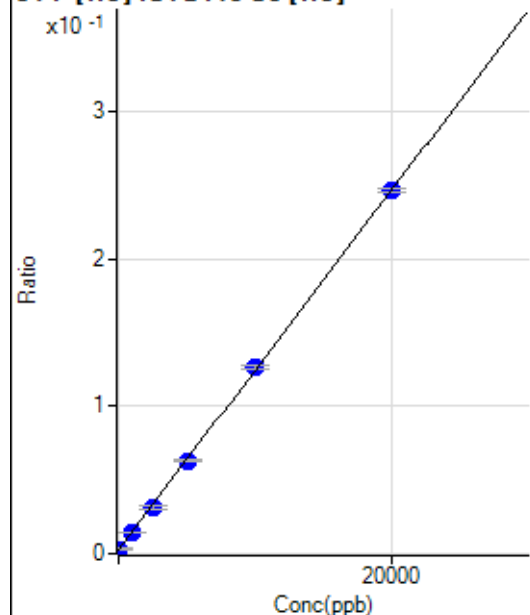
DL = 19.87

BEC = 824.4

Weight: <None>

Min Conc: 0

31 P [He] ISTD :45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-20.707	211.12	0.0025	P	13.1
2	☐	0.000	20.707	255.56	0.0030	P	24.2
3	☐	1000.000	983.441	1297.32	0.0147	P	3.4
4	☐	2500.000	2348.569	2764.22	0.0314	P	6.4
5	☐	5000.000	4922.096	5456.73	0.0628	P	2.2
6	☐	10000.000	10154.919	10832.05	0.1267	P	1.1
7	☐	20000.000	19961.773	21466.28	0.2464	P	0.9
8	☐			236.12	0.0027	P	13.3

$$y = 1.2209\text{E-}005 * x + 0.0027$$

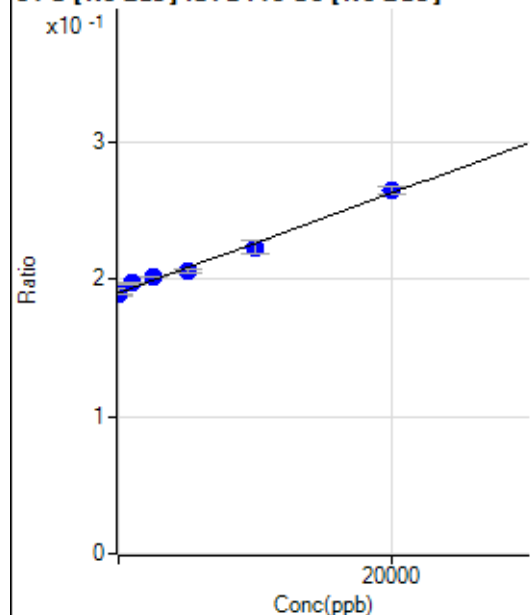
R = 0.9999

DL = 127.9

BEC = 222.7

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-319.453	383773.82	0.1887	P	0.8
2	☐	0.000	319.453	390359.73	0.1910	P	2.7
3	☐	1000.000	1945.252	403524.66	0.1969	P	0.8
4	☐	2500.000	3244.120	414285.21	0.2017	P	0.5
5	☐	5000.000	4433.303	434956.06	0.2060	P	1.7
6	☐	10000.000	9182.311	478623.51	0.2233	P	3.9
7	☐	20000.000	20410.241	569993.80	0.2641	P	2.1
8	☐			362953.30	0.1682	P	0.5

$$y = 3.6367E-006 * x + 0.1899$$

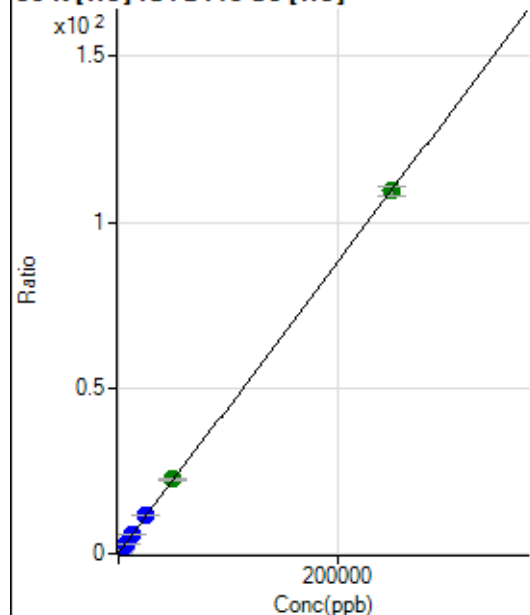
$$R = 0.9957$$

$$DL = 2750$$

$$BEC = 5.221E+04$$

Weight: <None>

Min Conc: 0

39 K [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20957.33	0.2449	P	0.8
2	☐	500.000	521.453	40833.56	0.4729	P	3.4
3	☐	2500.000	2593.534	121494.87	1.3786	P	0.3
4	☐	6250.000	6432.575	269234.22	3.0568	P	1.7
5	☐	12500.000	12895.116	511034.01	5.8817	P	1.5
6	☐	25000.000	26313.054	1004214.94	11.7470	P	2.1
7	☐	50000.000	50597.475	1947516.80	22.3623	A	2.2
8	☐	250000.00	249723.90	9490811.84	109.4052	A	2.6

$$y = 4.3712E-004 * x + 0.2449$$

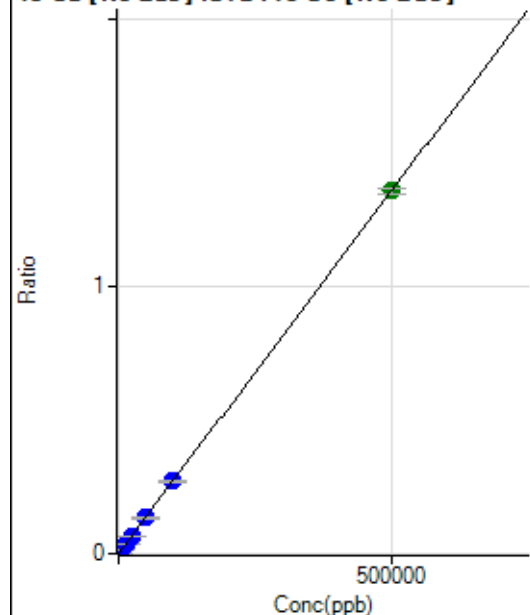
$$R = 1.0000$$

$$DL = 13.81$$

$$BEC = 560.4$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	475.78	0.0002	P	6.5
2	☐	500.000	474.756	3109.13	0.0015	P	6.2
3	☐	5000.000	4940.306	27951.10	0.0136	P	0.7
4	☐	12500.000	12514.804	70251.90	0.0342	P	1.0
5	☐	25000.000	24487.475	140824.24	0.0667	P	0.8
6	☐	50000.000	49458.816	288191.52	0.1345	P	4.8
7	☐	100000.00	99871.265	585539.87	0.2713	P	1.5
8	☐	500000.00	500105.74	2928585.02	1.3575	A	1.2

$$y = 2.7140\text{E-}006 * x + 2.3394\text{E-}004$$

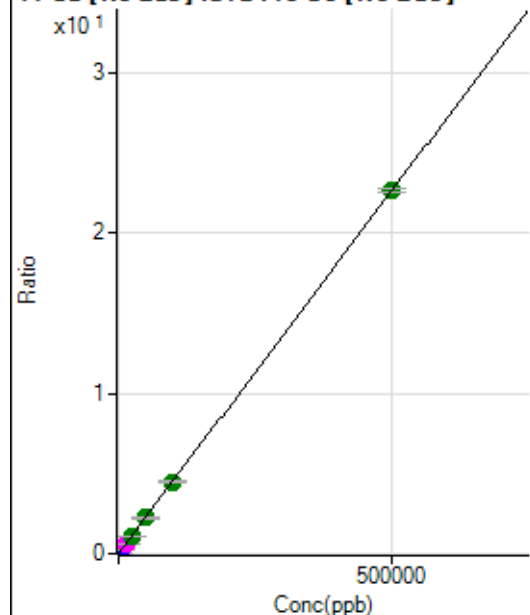
$$R = 1.0000$$

$$DL = 16.71$$

$$BEC = 86.2$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24479.85	0.0120	P	0.6
2	☐	500.000	476.650	68581.34	0.0336	P	3.3
3	☐	5000.000	5010.340	488329.07	0.2383	P	1.4
4	☐	12500.000	12513.391	1185859.22	0.5772	M	0.3
5	☐	25000.000	24448.782	2356960.75	1.1163	A	2.0
6	☐	50000.000	49440.381	4812427.72	2.2452	A	4.5
7	☐	100000.00	99141.936	9692987.25	4.4901	A	0.6
8	☐	500000.00	500254.72	48772062.32	22.6076	A	1.0

$$y = 4.5168\text{E-}005 * x + 0.0120$$

$$R = 1.0000$$

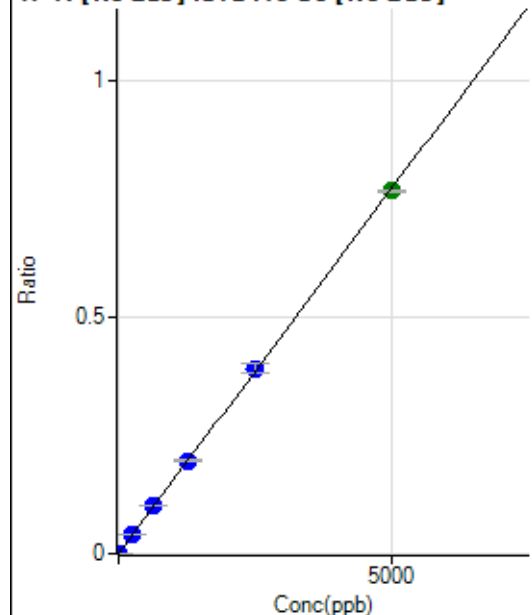
$$DL = 4.56$$

$$BEC = 266.5$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	455.57	0.0002	P	23.7
2	☐	5.000	5.447	2175.23	0.0011	P	9.2
3	☐	250.000	258.937	82449.05	0.0402	P	1.0
4	☐	625.000	652.382	207546.05	0.1010	P	1.4
5	☐	1250.000	1276.463	416912.68	0.1975	P	1.7
6	☐	2500.000	2539.063	841318.53	0.3926	P	4.9
7	☐	5000.000	4969.983	1658237.77	0.7682	A	0.7
8	☐			694.48	0.0003	P	19.8

$$y = 1.5452\text{E-}004 * x + 2.2408\text{E-}004$$

$$R = 0.9999$$

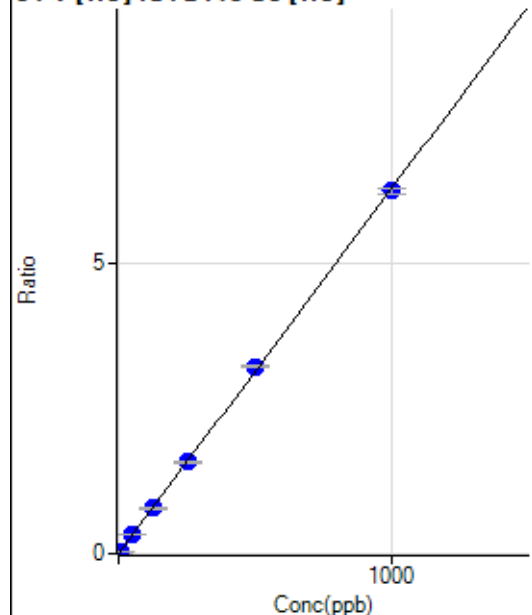
$$DL = 1.03$$

$$BEC = 1.45$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.56	0.0003	P	72.1
2	☐	5.000	5.160	2821.42	0.0326	P	0.7
3	☐	50.000	50.377	27858.28	0.3161	P	0.8
4	☐	125.000	124.712	68891.32	0.7822	P	1.6
5	☐	250.000	250.409	136422.32	1.5702	P	1.7
6	☐	500.000	511.630	274262.13	3.2079	P	1.2
7	☐	1000.000	994.099	542827.07	6.2328	P	1.7
8	☐			67.78	0.0008	P	16.8

$$y = 0.0063 * x + 2.9897\text{E-}004$$

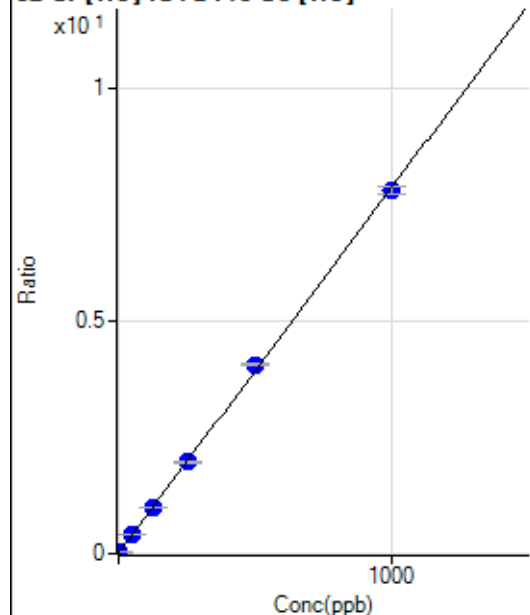
$$R = 0.9999$$

$$DL = 0.1032$$

$$BEC = 0.04769$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	622.24	0.0073	P	6.7
2	☐	2.000	2.063	2029.05	0.0235	P	5.8
3	☐	50.000	50.987	35952.88	0.4080	P	1.0
4	☐	125.000	125.918	87808.31	0.9969	P	0.7
5	☐	250.000	250.495	171680.15	1.9760	P	1.4
6	☐	500.000	515.787	347193.38	4.0610	P	1.3
7	☐	1000.000	991.819	679493.44	7.8022	P	2.0
8	☐			4311.81	0.0497	P	2.2

$$y = 0.0079 * x + 0.0073$$

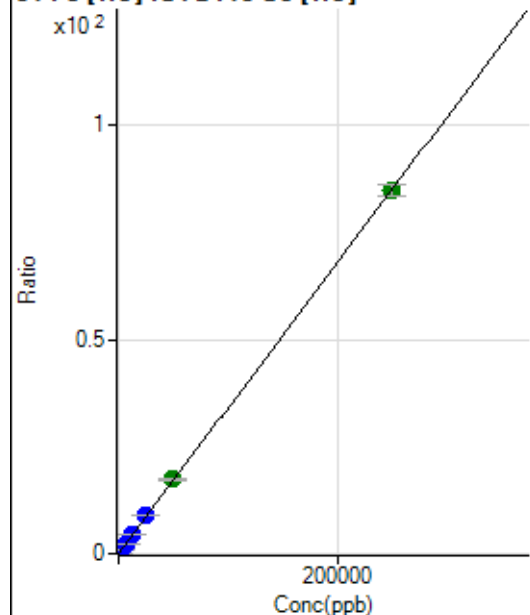
$$R = 0.9998$$

$$DL = 0.187$$

$$BEC = 0.9249$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.35	0.0056	P	3.4
2	☐	50.000	49.205	1929.79	0.0223	P	3.1
3	☐	2500.000	2609.962	78518.33	0.8910	P	0.7
4	☐	6250.000	6473.158	193897.73	2.2015	P	1.9
5	☐	12500.000	12917.026	381187.21	4.3874	P	1.5
6	☐	25000.000	26298.414	763156.11	8.9267	P	1.5
7	☐	50000.000	51073.903	1509062.17	17.3311	A	3.5
8	☐	250000.00	249627.84	7345238.47	84.6853	A	3.3

$$y = 3.3922E-004 * x + 0.0056$$

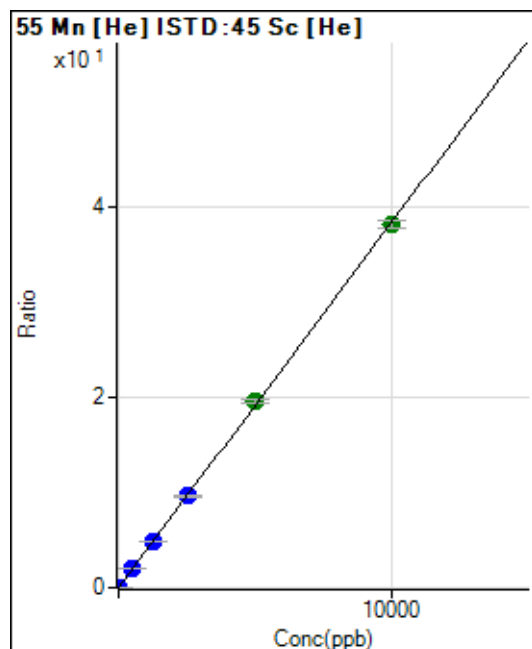
$$R = 1.0000$$

$$DL = 1.692$$

$$BEC = 16.65$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	96.67	0.0011	P	32.0
2	☐	1.000	0.991	424.46	0.0049	P	8.3
3	☐	500.000	506.284	170844.74	1.9387	P	0.5
4	☐	1250.000	1253.186	422522.10	4.7971	P	1.1
5	☐	2500.000	2514.988	836348.50	9.6260	P	1.3
6	☐	5000.000	5116.086	1673762.89	19.5804	A	2.5
7	☐	10000.000	9937.497	3312117.94	38.0320	A	2.1
8	☐			1992.38	0.0230	P	6.4

$$y = 0.0038 * x + 0.0011$$

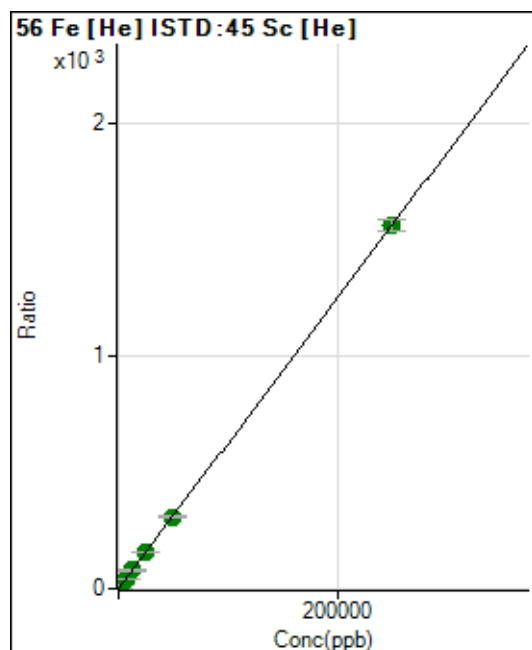
$$R = 0.9999$$

$$DL = 0.2826$$

$$BEC = 0.2946$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3241.16	0.0379	P	5.4
2	☐	50.000	51.710	31108.24	0.3603	P	3.6
3	☐	2500.000	2556.612	1407986.20	15.9772	A	0.5
4	☐	6250.000	6345.818	3487994.49	39.6013	A	1.3
5	☐	12500.000	12588.482	6822355.25	78.5216	A	1.4
6	☐	25000.000	25510.487	13600712.46	159.0846	A	1.3
7	☐	50000.000	49439.007	26848246.66	308.2685	A	1.6
8	☐	250000.00	250053.76	135229912.2	1,559.013	A	3.1

$$y = 0.0062 * x + 0.0379$$

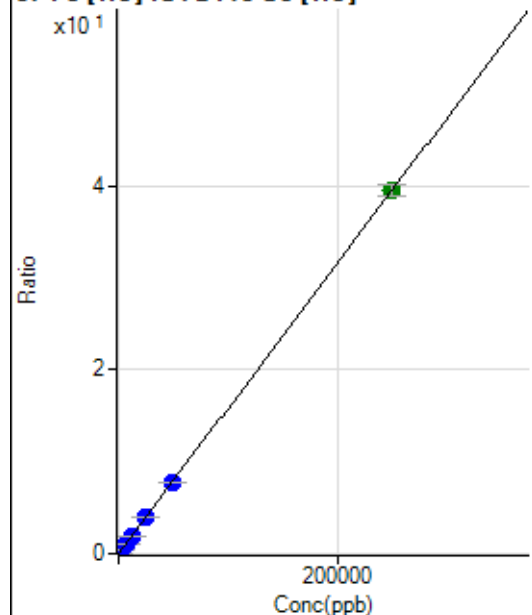
$$R = 1.0000$$

$$DL = 0.9758$$

$$BEC = 6.077$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	162.97	0.0019	P	24.6
2	☐	50.000	46.239	792.63	0.0092	P	13.0
3	☐	2500.000	2507.411	35022.84	0.3975	P	3.2
4	☐	6250.000	6248.723	87004.48	0.9878	P	1.2
5	☐	12500.000	12349.956	169467.03	1.9504	P	1.2
6	☐	25000.000	25196.061	340023.58	3.9773	P	1.5
7	☐	50000.000	48958.659	672882.94	7.7265	P	2.3
8	☐	250000.00	250196.12	3424254.91	39.4772	A	3.1

$$y = 1.5778\text{E-}004 * x + 0.0019$$

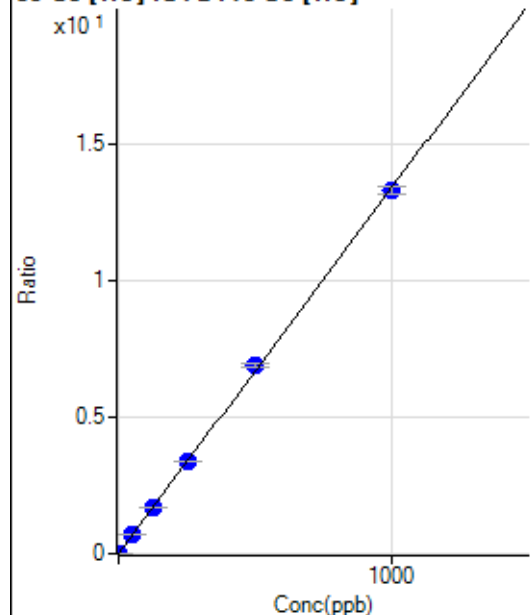
$$R = 1.0000$$

$$DL = 8.893$$

$$BEC = 12.05$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	68.89	0.0008	P	34.7
2	☐	1.000	1.012	1236.73	0.0143	P	4.4
3	☐	50.000	50.662	59706.66	0.6776	P	2.0
4	☐	125.000	125.402	147626.49	1.6761	P	1.3
5	☐	250.000	252.271	292877.79	3.3710	P	1.5
6	☐	500.000	514.391	587567.73	6.8727	P	1.4
7	☐	1000.000	992.154	1154358.21	13.2553	P	2.2
8	☐			1632.33	0.0188	P	10.1

$$y = 0.0134 * x + 8.0358\text{E-}004$$

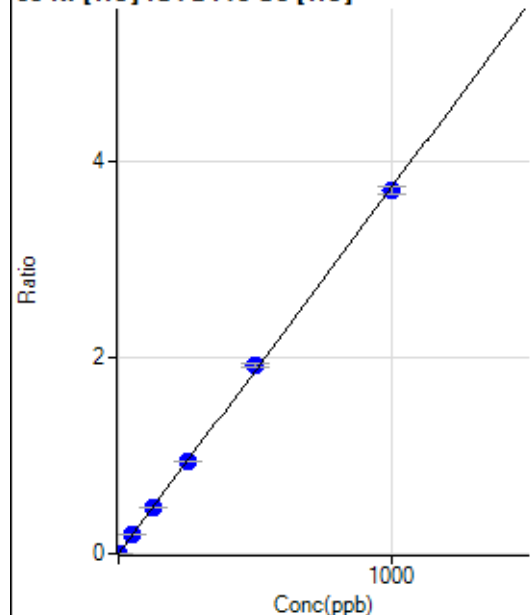
$$R = 0.9998$$

$$DL = 0.06264$$

$$BEC = 0.06015$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	40.00	0.0005	P	37.6
2	☐	1.000	1.073	385.56	0.0045	P	1.1
3	☐	50.000	50.849	16728.79	0.1898	P	1.1
4	☐	125.000	127.761	41950.67	0.4763	P	0.6
5	☐	250.000	251.740	81493.74	0.9380	P	1.6
6	☐	500.000	516.491	164477.29	1.9240	P	1.8
7	☐	1000.000	990.932	321419.19	3.6908	P	2.3
8	☐			1332.30	0.0154	P	7.2

$$y = 0.0037 * x + 4.6683E-004$$

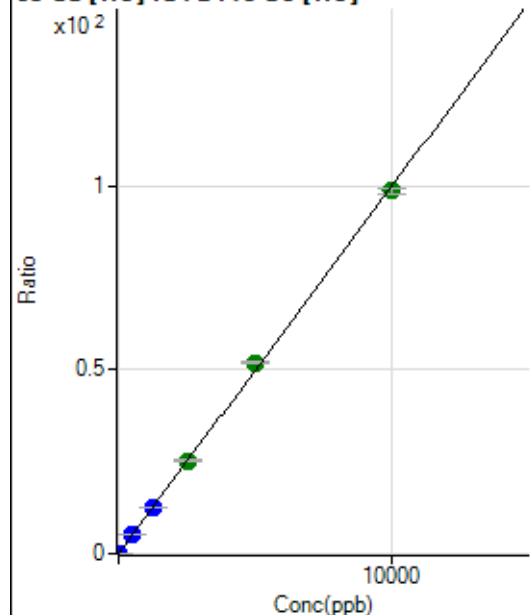
$$R = 0.9998$$

$$DL = 0.1415$$

$$BEC = 0.1254$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1300.07	0.0152	P	4.7
2	☐	2.000	2.349	3335.98	0.0386	P	5.4
3	☐	500.000	514.704	453937.09	5.1516	P	1.6
4	☐	1250.000	1273.114	1120366.66	12.7200	P	1.1
5	☐	2500.000	2525.404	2190889.17	25.2170	A	1.6
6	☐	5000.000	5207.895	4444480.87	51.9865	A	1.4
7	☐	10000.000	9886.077	8593695.15	98.6717	A	1.5
8	☐			5508.90	0.0635	P	3.9

$$y = 0.0100 * x + 0.0152$$

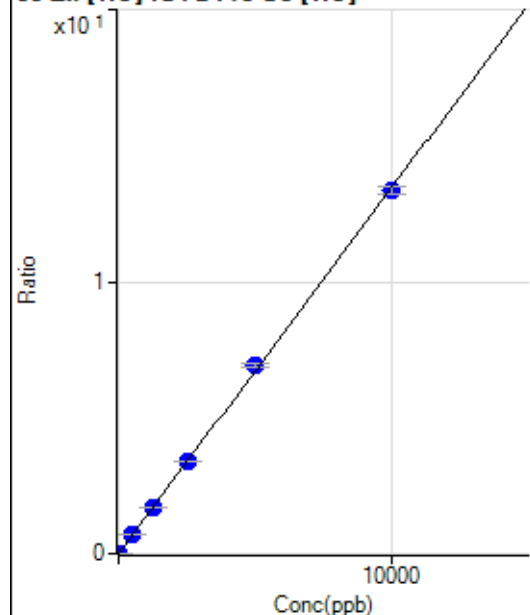
$$R = 0.9997$$

$$DL = 0.2125$$

$$BEC = 1.523$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	118.89	0.0014	P	12.5
2	☐	2.000	2.225	377.79	0.0044	P	11.5
3	☐	500.000	506.428	60128.91	0.6824	P	1.9
4	☐	1250.000	1259.692	149325.02	1.6953	P	1.1
5	☐	2500.000	2518.721	294387.23	3.3884	P	1.6
6	☐	5000.000	5150.700	592259.89	6.9277	P	1.5
7	☐	10000.000	9918.437	1161661.26	13.3390	P	2.2
8	☐			1560.10	0.0180	P	7.3

$$y = 0.0013 * x + 0.0014$$

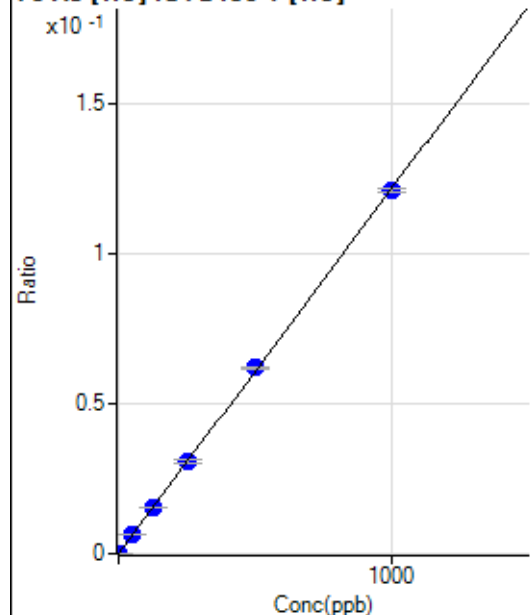
$$R = 0.9998$$

$$DL = 0.3892$$

$$BEC = 1.034$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.67	0.0000	P	11.5
2	☐	1.000	1.036	100.34	0.0001	P	2.6
3	☐	50.000	51.571	4385.13	0.0063	P	1.7
4	☐	125.000	126.773	10832.91	0.0154	P	0.7
5	☐	250.000	252.106	21402.29	0.0306	P	2.7
6	☐	500.000	509.615	43102.96	0.0619	P	1.1
7	☐	1000.000	994.366	85169.60	0.1207	P	1.2
8	☐			40.00	0.0001	P	11.8

$$y = 1.2137E-004 * x + 2.0117E-005$$

$$R = 0.9999$$

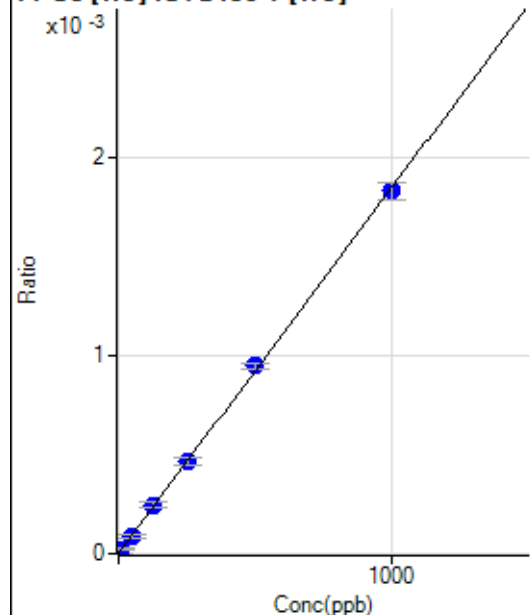
$$DL = 0.05727$$

$$BEC = 0.1657$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	10.473	14.45	0.0000	P	46.9
3	☐	50.000	48.309	63.33	0.0001	P	18.3
4	☐	125.000	132.874	173.34	0.0002	P	13.0
5	☐	250.000	250.988	324.45	0.0005	P	9.8
6	☐	500.000	513.428	660.03	0.0009	P	2.9
7	☐	1000.000	992.112	1291.19	0.0018	P	4.4
8	☐			3.33	0.0000	P	98.3

$$y = 1.8423\text{E-}006 * x + 1.6164\text{E-}006$$

$$R = 0.9998$$

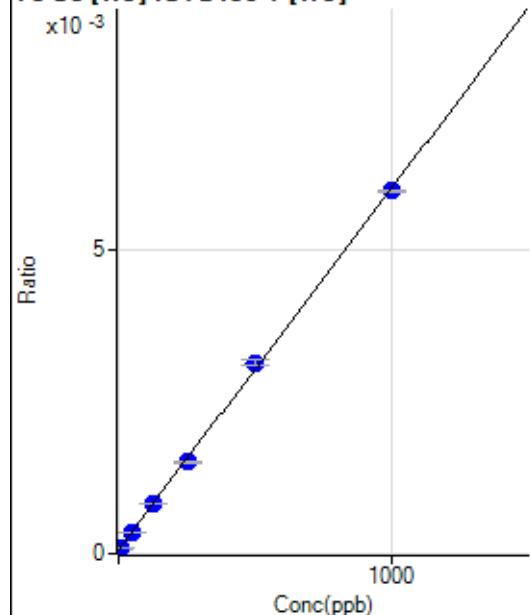
$$DL = 4.559$$

$$BEC = 0.8774$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.67	0.0001	P	5.5
2	☐	5.000	4.108	63.01	0.0001	P	10.9
3	☐	50.000	48.456	247.70	0.0004	P	3.4
4	☐	125.000	128.109	581.74	0.0008	P	2.1
5	☐	250.000	241.608	1048.82	0.0015	P	3.8
6	☐	500.000	517.416	2185.06	0.0031	P	2.5
7	☐	1000.000	993.083	4204.72	0.0060	P	0.4
8	☐			41.00	0.0001	P	11.2

$$y = 5.9327\text{E-}006 * x + 6.7233\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.882$$

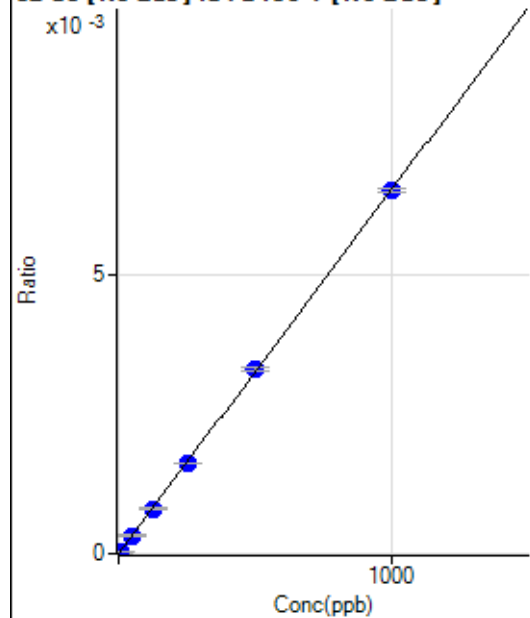
$$BEC = 11.33$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2436.05		P	2.1
2	☐			2426.08		P	11.3
3	☐			2219.13		P	9.3
4	☐			2392.67		P	2.6
5	☐			2275.88		P	8.7
6	☐			2285.88		P	1.7
7	☐			2339.27		P	6.4
8	☐			3043.46		P	5.4

82 Se [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-0.71	0.0000	P	-4785.
2	☐	5.000	4.960	163.01	0.0000	P	49.4
3	☐	50.000	49.205	1677.39	0.0003	P	4.5
4	☐	125.000	124.137	4203.22	0.0008	P	2.2
5	☐	250.000	247.622	8603.05	0.0016	P	0.8
6	☐	500.000	507.958	17433.48	0.0033	P	2.6
7	☐	1000.000	996.763	34858.24	0.0065	P	1.1
8	☐			32.38	0.0000	P	125.8

$$y = 6.5229\text{E-}006 * x - 1.6194\text{E-}007$$

$$R = 0.9999$$

$$DL = 3.564$$

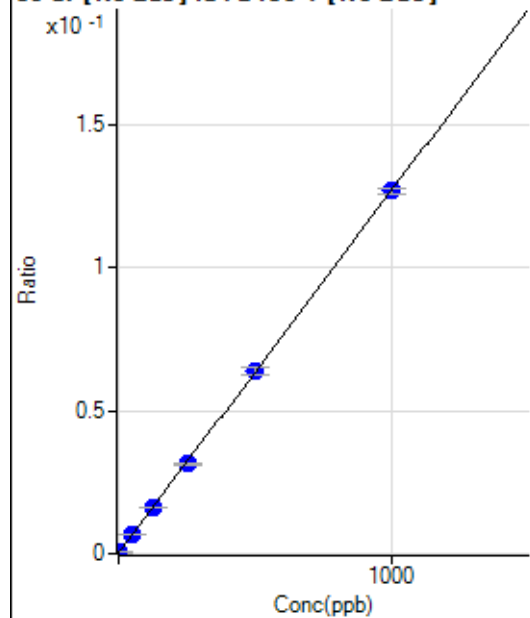
$$BEC = -0.02483$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			734.47		P	6.6
2	☐			752.25		P	9.8
3	☐			746.69		P	3.5
4	☐			798.92		P	2.4
5	☐			747.81		P	3.7
6	☐			722.25		P	4.8
7	☐			743.36		P	7.6
8	☐			732.25		P	5.9

86 Sr [No Gas] ISTD : 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1116.74	0.0002	P	12.3
2	☐	1.000	1.154	1847.39	0.0004	P	3.9
3	☐	50.000	49.863	34220.13	0.0065	P	2.1
4	☐	125.000	124.833	83384.86	0.0161	P	1.6
5	☐	250.000	245.877	167349.71	0.0314	P	2.6
6	☐	500.000	503.987	337598.54	0.0642	P	4.0
7	☐	1000.000	999.065	680938.69	0.1270	P	1.4
8	☐			5256.70	0.0010	P	3.6

$$y = 1.2691E-004 * x + 2.1737E-004$$

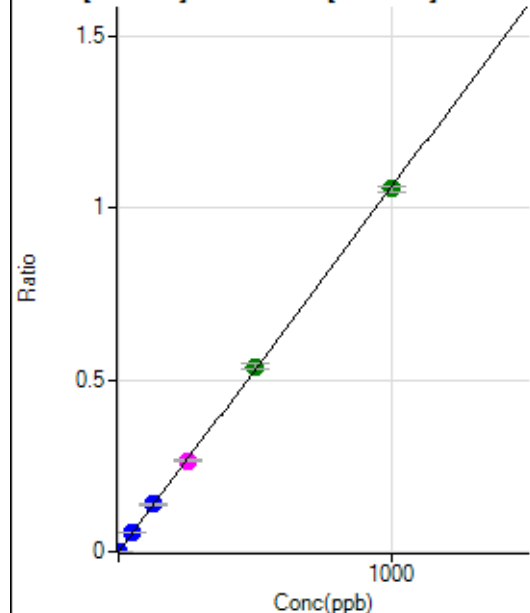
$$R = 1.0000$$

$$DL = 0.6322$$

$$BEC = 1.713$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	194.45	0.0000	P	9.9
2	☐	1.000	1.068	5945.88	0.0012	P	7.0
3	☐	50.000	51.219	284404.88	0.0544	P	0.9
4	☐	125.000	129.224	712297.55	0.1372	P	1.0
5	☐	250.000	250.124	1414308.34	0.2655	M	0.6
6	☐	500.000	508.824	2841780.29	0.5401	A	2.7
7	☐	1000.000	994.968	5661607.11	1.0560	A	1.8
8	☐			34521.21	0.0065	P	2.6

$$y = 0.0011 * x + 3.7850E-005$$

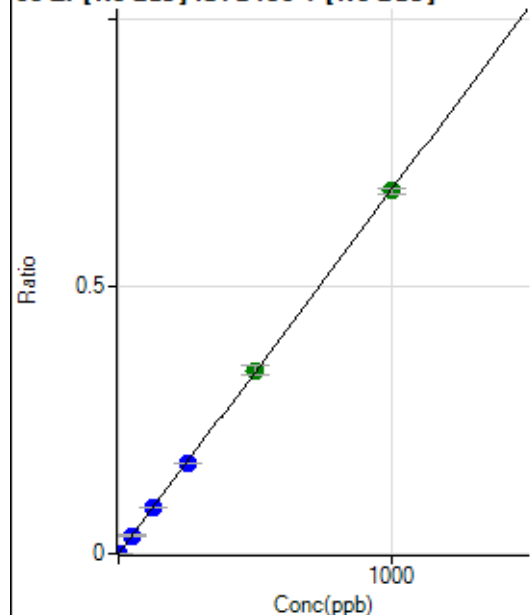
$$R = 0.9999$$

$$DL = 0.01063$$

$$BEC = 0.03566$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD:89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	230.57	0.0000	P	25.9
2	☐	1.000	1.016	3736.71	0.0007	P	2.0
3	☐	50.000	50.041	178200.24	0.0341	P	0.7
4	☐	125.000	127.254	449705.95	0.0866	P	1.3
5	☐	250.000	250.040	906280.42	0.1701	P	0.7
6	☐	500.000	504.244	1804328.93	0.3431	A	4.7
7	☐	1000.000	997.584	3638375.56	0.6786	A	1.8
8	☐			1288.98	0.0002	P	8.9

$$y = 6.8025E-004 * x + 4.4917E-005$$

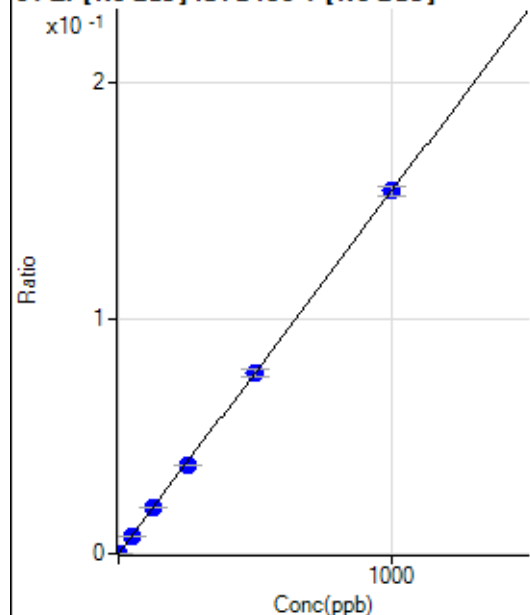
$$R = 1.0000$$

$$DL = 0.05126$$

$$BEC = 0.06603$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.34	0.0000	P	37.3
2	☐	1.000	1.026	858.39	0.0002	P	9.5
3	☐	50.000	49.351	39760.20	0.0076	P	1.8
4	☐	125.000	126.623	101225.13	0.0195	P	0.2
5	☐	250.000	243.965	200015.10	0.0376	P	1.8
6	☐	500.000	500.701	405317.70	0.0771	P	4.5
7	☐	1000.000	1000.988	825819.81	0.1540	P	2.4
8	☐			222.23	0.0000	P	19.2

$$y = 1.5388\text{E-}004 * x + 1.1341\text{E-}005$$

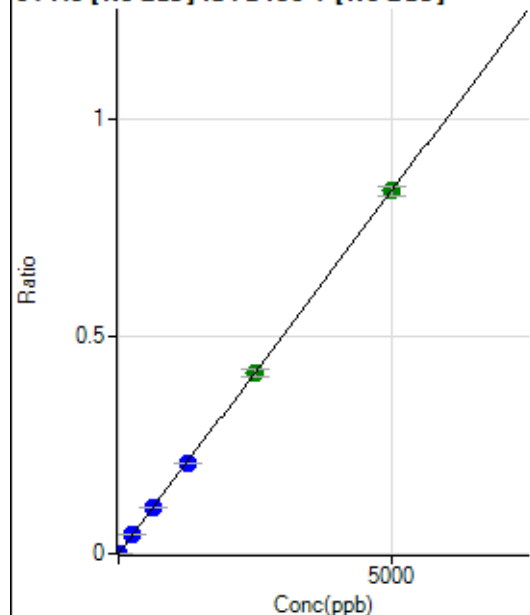
$$R = 1.0000$$

$$DL = 0.08245$$

$$BEC = 0.0737$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD : 89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	213.90	0.0000	P	22.7
2	☐	5.000	5.055	4489.73	0.0009	P	5.5
3	☐	250.000	254.759	222238.32	0.0425	P	0.8
4	☐	625.000	646.406	559676.20	0.1078	P	0.9
5	☐	1250.000	1246.747	1107236.66	0.2079	P	1.3
6	☐	2500.000	2494.284	2187045.01	0.4158	A	4.8
7	☐	5000.000	5000.758	4469225.54	0.8337	A	2.4
8	☐			1655.70	0.0003	P	5.8

$$y = 1.6670\text{E-}004 * x + 4.1628\text{E-}005$$

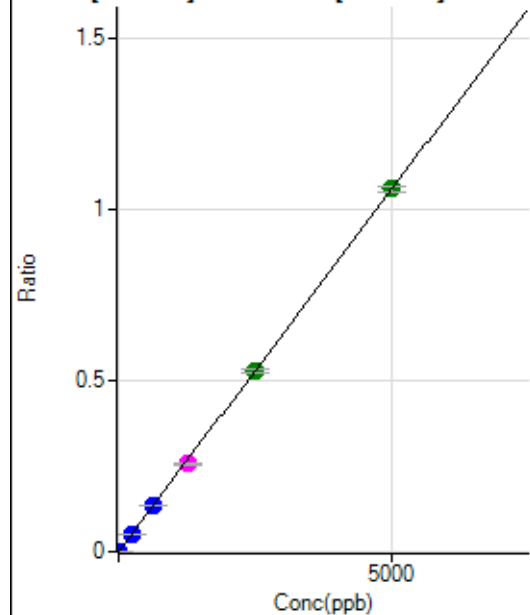
$$R = 1.0000$$

$$DL = 0.1702$$

$$BEC = 0.2497$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	141.67	0.0000	P	12.3
2	☐	5.000	4.933	5431.77	0.0011	P	7.6
3	☐	250.000	249.133	275490.10	0.0527	P	0.6
4	☐	625.000	632.988	694911.20	0.1338	P	0.9
5	☐	1250.000	1219.338	1373146.18	0.2578	M	2.2
6	☐	2500.000	2494.743	2775069.16	0.5274	A	2.8
7	☐	5000.000	5009.339	5677745.13	1.0590	A	1.5
8	☐			1983.53	0.0004	P	5.5

$$y = 2.1140\text{E-}004 * x + 2.7587\text{E-}005$$

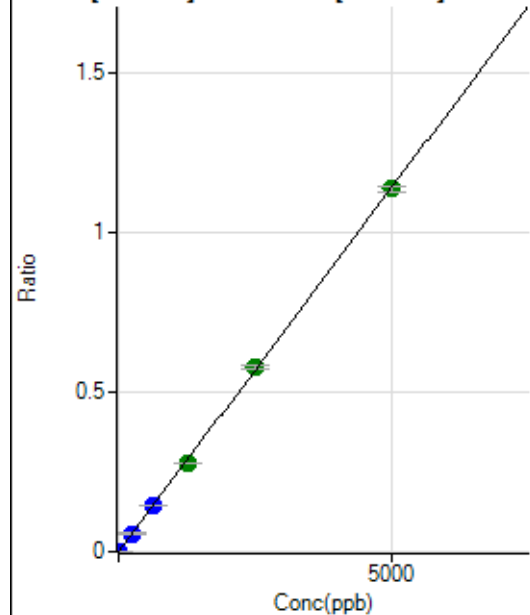
$$R = 1.0000$$

$$DL = 0.04801$$

$$BEC = 0.1305$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.12	0.0000	P	34.7
2	☐	5.000	4.910	5837.49	0.0011	P	3.5
3	☐	250.000	250.349	298305.82	0.0571	P	1.2
4	☐	625.000	634.189	750230.99	0.1445	P	0.4
5	☐	1250.000	1219.546	1479952.04	0.2778	A	0.9
6	☐	2500.000	2541.148	3045933.38	0.5789	A	2.8
7	☐	5000.000	4985.874	6089237.55	1.1358	A	1.6
8	☐			2630.88	0.0005	P	7.0

$$y = 2.2779\text{E-}004 * x + 3.1325\text{E-}005$$

$$R = 0.9999$$

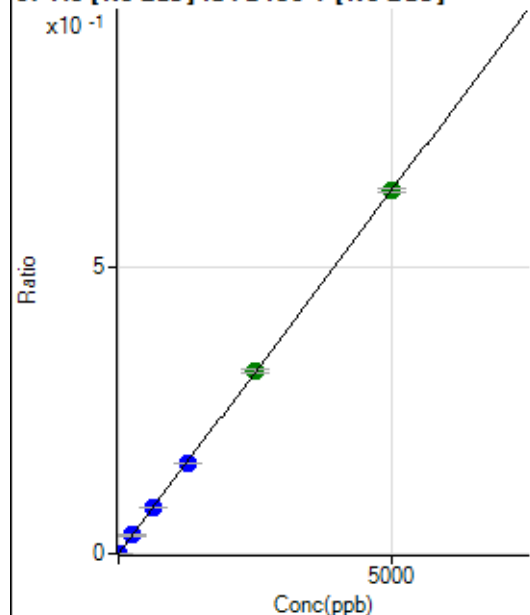
$$DL = 0.1432$$

$$BEC = 0.1375$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	52.3
2	☐	5.000	5.302	3475.54	0.0007	P	5.6
3	☐	250.000	251.524	167195.57	0.0320	P	0.3
4	☐	625.000	635.082	419157.82	0.0807	P	0.7
5	☐	1250.000	1241.663	840727.44	0.1578	P	0.5
6	☐	2500.000	2508.473	1677965.46	0.3188	A	1.9
7	☐	5000.000	4996.511	3404892.66	0.6351	A	1.2
8	☐			1016.74	0.0002	P	14.7

$$y = 1.2710\text{E-}004 * x + 1.0795\text{E-}005$$

$$R = 1.0000$$

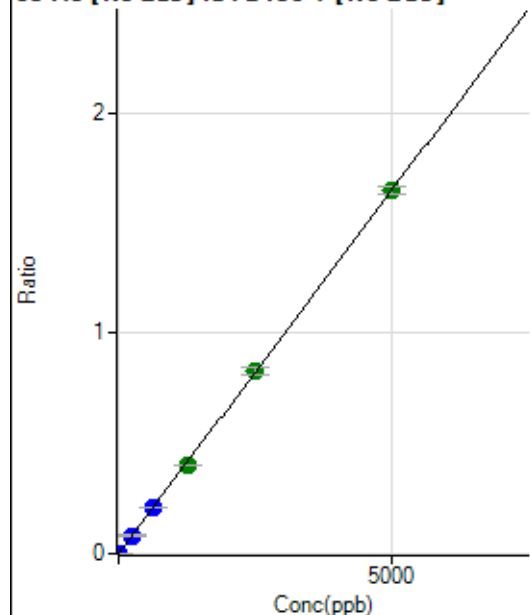
$$DL = 0.1332$$

$$BEC = 0.08493$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	0.5
2	☐	5.000	4.924	8305.48	0.0016	P	4.8
3	☐	250.000	250.330	431485.17	0.0825	P	2.1
4	☐	625.000	631.275	1080510.01	0.2081	P	0.9
5	☐	1250.000	1218.949	2140369.39	0.4018	A	1.2
6	☐	2500.000	2517.599	4365927.96	0.8299	A	3.7
7	☐	5000.000	4998.163	8833130.41	1.6476	A	2.2
8	☐			2469.74	0.0005	P	6.1

$$y = 3.2964\text{E-}004 * x + 1.2977\text{E-}005$$

$$R = 1.0000$$

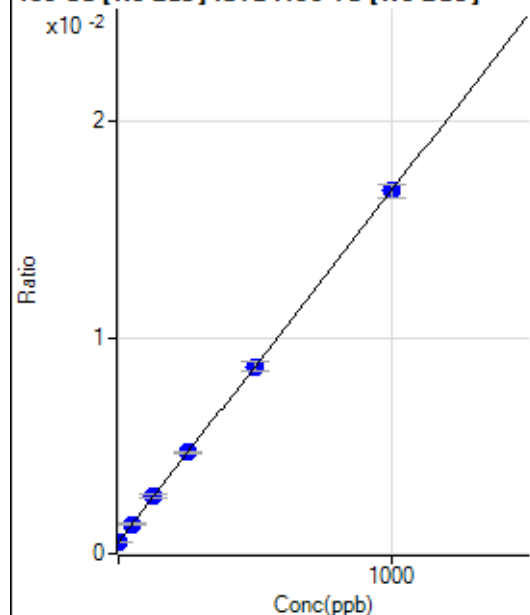
$$DL = 0.0005961$$

$$BEC = 0.03937$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1530.68	0.0005	P	2.2
2	☐	1.000	0.225	1533.46	0.0006	P	6.9
3	☐	50.000	48.733	3708.93	0.0013	P	7.6
4	☐	125.000	128.228	7399.41	0.0026	P	7.1
5	☐	250.000	254.285	13493.04	0.0047	P	1.4
6	☐	500.000	499.329	25476.84	0.0087	P	5.0
7	☐	1000.000	998.925	50074.64	0.0168	P	3.9
8	☐			1402.89	0.0005	P	12.2

$$y = 1.6261\text{E-}005 * x + 5.4974\text{E-}004$$

$$R = 1.0000$$

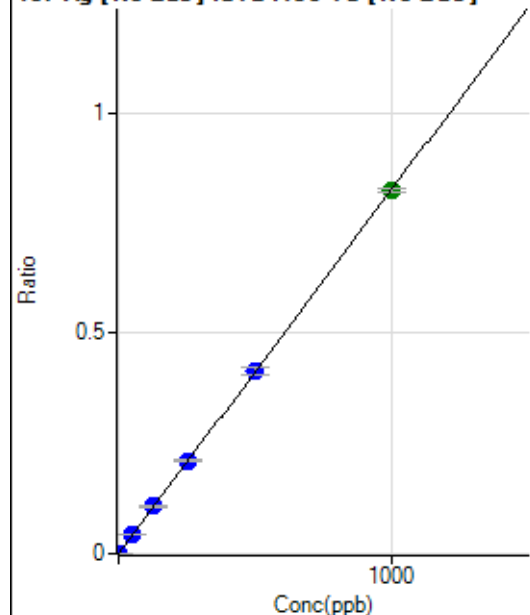
$$DL = 2.182$$

$$BEC = 33.81$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	44.8
2	☐	1.000	0.957	2239.13	0.0008	P	2.5
3	☐	50.000	52.925	120683.29	0.0437	P	0.1
4	☐	125.000	130.042	301542.23	0.1073	P	2.0
5	☐	250.000	255.503	607333.57	0.2109	P	1.8
6	☐	500.000	502.341	1218761.79	0.4146	P	3.6
7	☐	1000.000	996.677	2453223.80	0.8225	A	1.0
8	☐			730.60	0.0002	P	1.3

$$y = 8.2526\text{E-}004 * x + 1.6971\text{E-}005$$

$$R = 1.0000$$

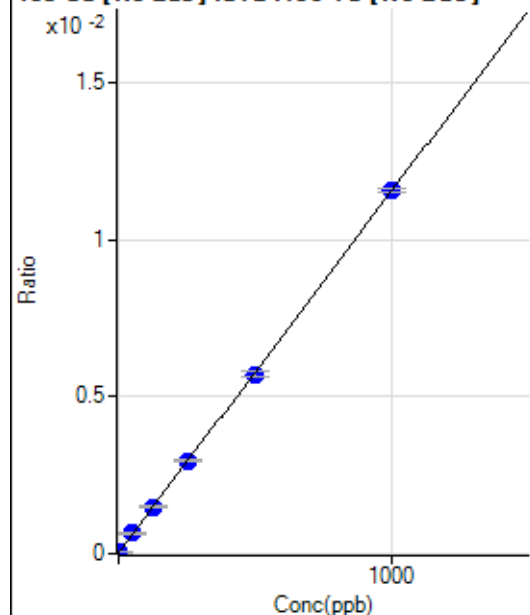
$$DL = 0.02761$$

$$BEC = 0.02056$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	76.39	0.0000	P	24.7
2	☐	1.000	0.623	95.83	0.0000	P	18.0
3	☐	50.000	55.469	1840.43	0.0007	P	7.7
4	☐	125.000	127.380	4200.69	0.0015	P	1.4
5	☐	250.000	253.827	8501.33	0.0030	P	2.2
6	☐	500.000	494.489	16827.08	0.0057	P	3.8
7	☐	1000.000	1001.228	34486.22	0.0116	P	0.9
8	☐			80.56	0.0000	P	22.9

$$y = 1.1521\text{E-}005 * x + 2.7408\text{E-}005$$

$$R = 1.0000$$

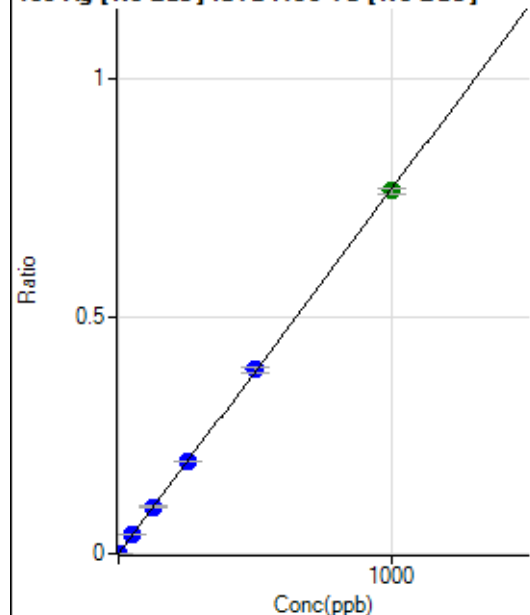
$$DL = 1.765$$

$$BEC = 2.379$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.5
2	☐	1.000	0.967	2080.77	0.0008	P	6.1
3	☐	50.000	52.842	112206.29	0.0406	P	0.9
4	☐	125.000	128.850	278289.86	0.0991	P	0.9
5	☐	250.000	254.576	563681.09	0.1957	P	1.0
6	☐	500.000	505.201	1141670.85	0.3884	P	3.6
7	☐	1000.000	995.632	2283074.03	0.7654	A	1.3
8	☐			625.03	0.0002	P	15.3

$$y = 7.6870\text{E-}004 * x + 6.9908\text{E-}006$$

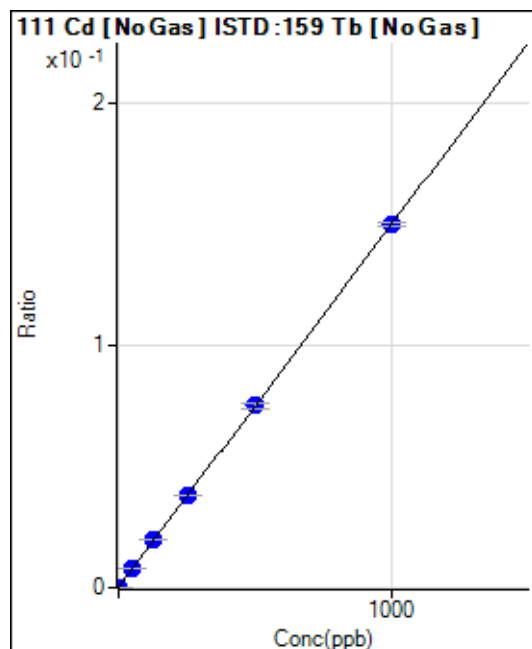
$$R = 1.0000$$

$$DL = 0.01787$$

$$BEC = 0.009094$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	291.55	0.0001	P	8.6
2	☐	1.000	1.196	786.85	0.0003	P	9.1
3	☐	50.000	52.010	21802.33	0.0079	P	1.6
4	☐	125.000	130.059	55017.20	0.0196	P	1.2
5	☐	250.000	252.685	109291.70	0.0379	P	0.6
6	☐	500.000	499.901	220396.45	0.0750	P	3.2
7	☐	1000.000	998.645	446370.49	0.1497	P	1.2
8	☐			465.86	0.0002	P	12.0

$$y = 1.4976\text{E-}004 * x + 1.0474\text{E-}004$$

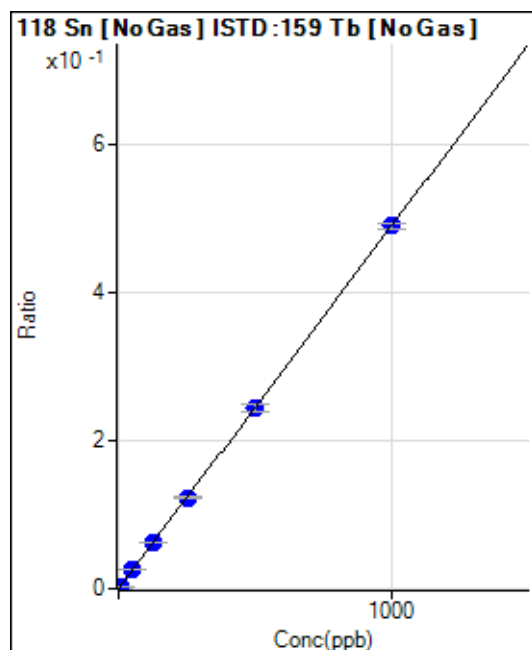
$$R = 1.0000$$

$$DL = 0.1802$$

$$BEC = 0.6994$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	208.34	0.0001	P	10.2
2	☐	5.000	5.311	7424.45	0.0027	P	2.3
3	☐	50.000	51.707	70157.83	0.0254	P	0.5
4	☐	125.000	126.892	174813.33	0.0622	P	1.5
5	☐	250.000	250.947	354219.39	0.1230	P	1.2
6	☐	500.000	498.109	717218.28	0.2440	P	4.8
7	☐	1000.000	1000.386	1461579.44	0.4900	P	1.3
8	☐			763.93	0.0003	P	12.9

$$y = 4.8978\text{E-}004 * x + 7.4797\text{E-}005$$

$$R = 1.0000$$

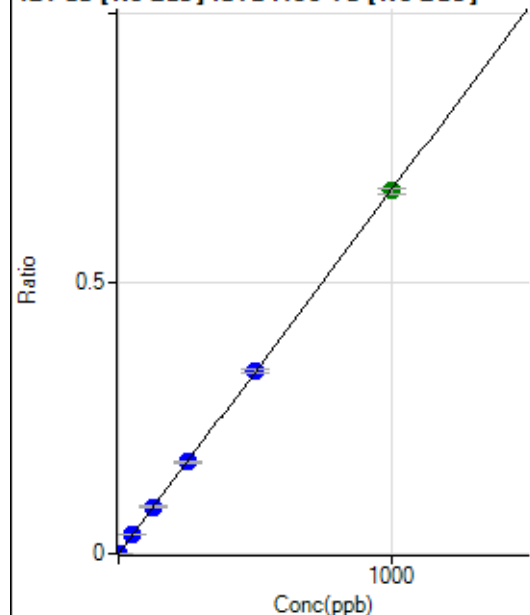
$$DL = 0.04652$$

$$BEC = 0.1527$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0000	P	22.5
2	☐	2.000	2.046	3911.78	0.0014	P	2.0
3	☐	50.000	52.173	96921.08	0.0351	P	0.5
4	☐	125.000	129.024	243651.67	0.0867	P	1.3
5	☐	250.000	251.260	486353.01	0.1689	P	0.5
6	☐	500.000	502.566	992911.68	0.3377	P	2.8
7	☐	1000.000	997.790	1999711.81	0.6705	A	1.4
8	☐			1177.86	0.0004	P	3.6

$$y = 6.7190\text{E-}004 * x + 3.5943\text{E-}005$$

$$R = 1.0000$$

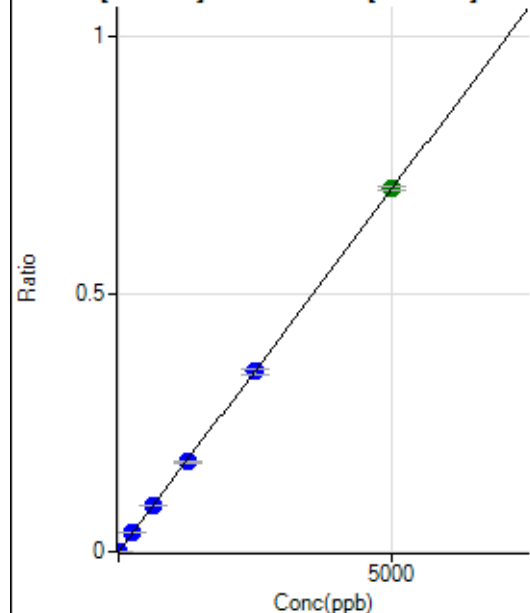
$$DL = 0.03609$$

$$BEC = 0.05349$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD : 159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	108.3
2	☐	10.000	9.855	3872.87	0.0014	P	4.3
3	☐	250.000	255.532	99408.32	0.0360	P	0.7
4	☐	625.000	630.933	249632.00	0.0888	P	0.3
5	☐	1250.000	1237.572	501946.09	0.1743	P	0.8
6	☐	2500.000	2488.702	1030219.70	0.3504	P	3.3
7	☐	5000.000	5007.738	2103426.63	0.7051	A	1.2
8	☐			713.93	0.0002	P	20.9

$$y = 1.4081\text{E-}004 * x + 7.9824\text{E-}006$$

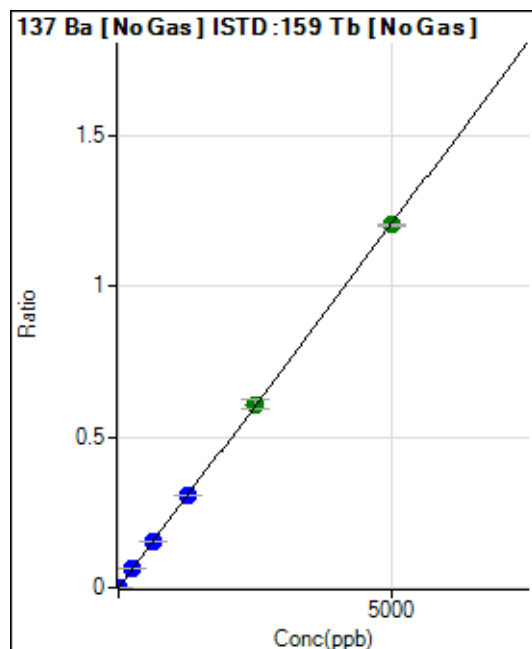
$$R = 1.0000$$

$$DL = 0.1842$$

$$BEC = 0.05669$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	27.6
2	☐	10.000	10.087	6796.32	0.0025	P	4.3
3	☐	250.000	258.616	172442.28	0.0624	P	1.4
4	☐	625.000	643.262	436273.78	0.1553	P	1.2
5	☐	1250.000	1263.814	878633.89	0.3051	P	1.0
6	☐	2500.000	2518.910	1786869.90	0.6080	A	4.9
7	☐	5000.000	4984.378	3588612.93	1.2031	A	0.2
8	☐			1297.33	0.0004	P	4.7

$$y = 2.4137E-004 * x + 1.6979E-005$$

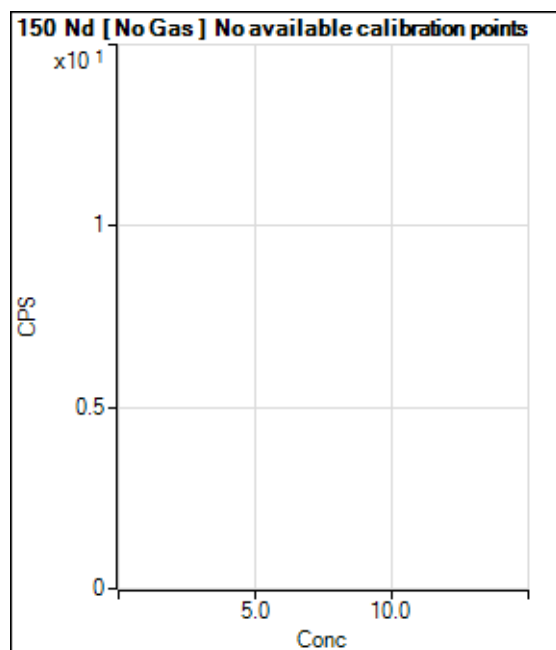
$$R = 1.0000$$

$$DL = 0.05815$$

$$BEC = 0.07034$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	132.3
2	☐			15.56		P	89.2
3	☐			4.45		P	86.6
4	☐			17.78		P	142.0
5	☐			26.66		P	86.6
6	☐			60.00		P	19.2
7	☐			91.11		P	34.6
8	☐			31.11		P	68.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	0.0
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			0.00		P	
5	☐			2.22		P	86.6
6	☐			6.67		P	50.0
7	☐			17.78		P	21.7
8	☐			4.45		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	65.5
2	☐			19.44		P	65.5
3	☐			22.22		P	21.6
4	☐			22.22		P	21.6
5	☐			36.11		P	13.3
6	☐			61.11		P	20.8
7	☐			116.67		P	24.7
8	☐			416.68		P	15.1

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			2.22		P	86.6
3	☐			7.78		P	107.8
4	☐			6.67		P	50.0
5	☐			21.11		P	18.2
6	☐			43.33		P	13.3
7	☐			62.22		P	6.2
8	☐			305.56		P	7.9

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			44.44		P	39.0
2	☐			47.22		P	27.0
3	☐			69.45		P	6.9
4	☐			83.34		P	10.0
5	☐			50.00		P	28.9
6	☐			80.56		P	15.8
7	☐			177.79		P	2.7
8	☐			519.47		P	5.2

160 Gd [He] No available calibration points

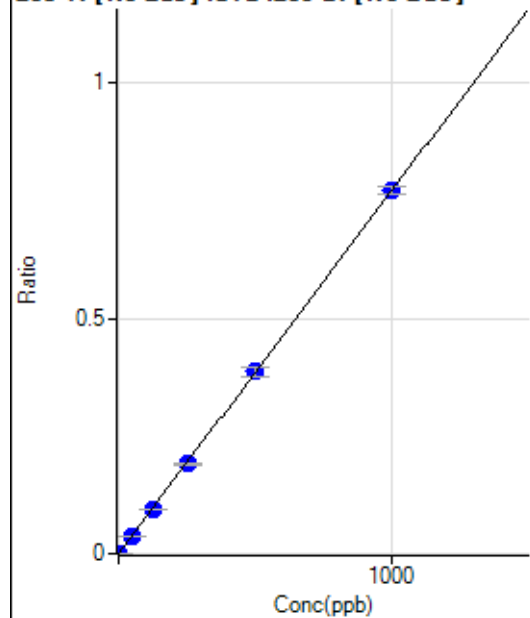
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	17.3
2	☐			15.56		P	75.3
3	☐			18.89		P	27.0
4	☐			23.33		P	62.3
5	☐			24.44		P	56.8
6	☐			45.56		P	4.2
7	☐			84.45		P	35.8
8	☐			326.68		P	12.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	99.0
2	☐			13.89		P	69.3
3	☐			19.45		P	24.7
4	☐			25.00		P	57.7
5	☐			16.67		P	100.0
6	☐			16.67		P	50.0
7	☐			44.45		P	28.7
8	☐			83.34		P	10.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	124.9
2	☐			3.33		P	100.1
3	☐			3.33		P	100.1
4	☐			10.00		P	57.7
5	☐			13.33		P	25.0
6	☐			14.45		P	26.7
7	☐			20.00		P	44.1
8	☐			30.00		P	11.1

203 Tl [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0000	P	40.1
2	☐	1.000	1.075	1177.86	0.0009	P	7.4
3	☐	50.000	49.673	53500.02	0.0383	P	1.1
4	☐	125.000	122.754	133499.40	0.0947	P	2.2
5	☐	250.000	247.005	274972.67	0.1905	P	2.8
6	☐	500.000	501.681	569167.81	0.3869	P	5.2
7	☐	1000.000	1000.205	1160240.84	0.7713	P	2.1
8	☐			402.79	0.0003	P	10.4

$$y = 7.7109\text{E-}004 * x + 3.2261\text{E-}005$$

$$R = 1.0000$$

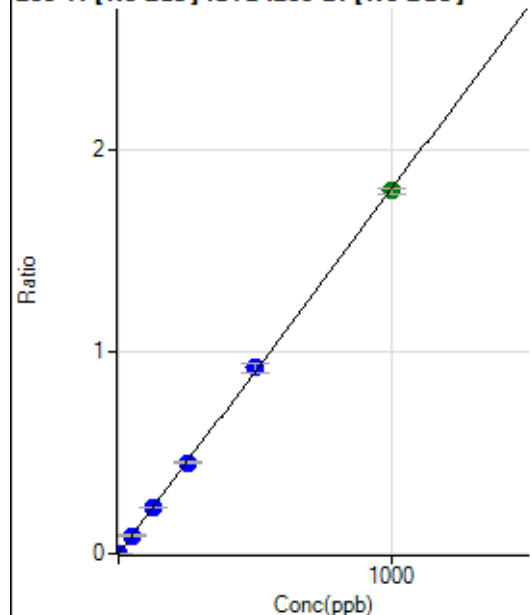
$$DL = 0.05029$$

$$BEC = 0.04184$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0001	P	3.7
2	☐	1.000	0.964	2466.97	0.0018	P	2.0
3	☐	50.000	49.901	125591.42	0.0900	P	2.1
4	☐	125.000	125.939	320035.02	0.2270	P	1.0
5	☐	250.000	250.435	651377.88	0.4513	P	0.9
6	☐	500.000	509.173	1350028.71	0.9174	P	4.3
7	☐	1000.000	995.192	2697393.14	1.7931	A	1.7
8	☐			897.28	0.0006	P	2.0

$$y = 0.0018 * x + 6.8268E-005$$

$$R = 0.9999$$

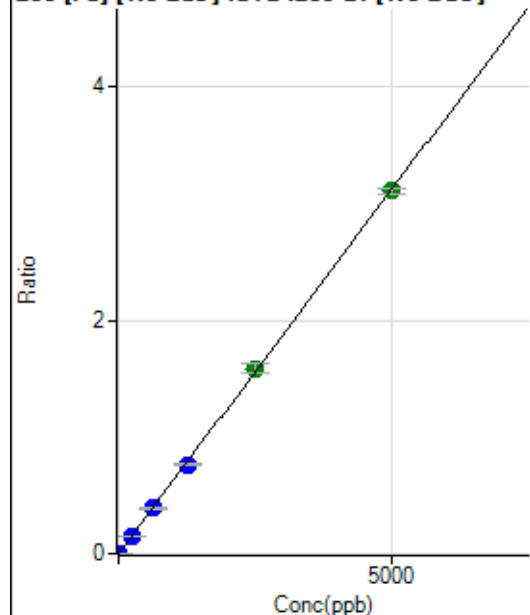
$$DL = 0.004194$$

$$BEC = 0.03789$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0001	P	23.1
2	☐	1.000	0.937	898.20	0.0007	P	2.8
3	☐	250.000	245.018	213402.65	0.1529	P	0.2
4	☐	625.000	621.483	546648.15	0.3877	P	1.5
5	☐	1250.000	1225.827	1103735.27	0.7647	P	0.7
6	☐	2500.000	2546.057	2336740.56	1.5881	A	4.8
7	☐	5000.000	4983.703	4676444.55	3.1086	A	1.9
8	☐			9088.54	0.0062	P	4.0

$$y = 6.2373E-004 * x + 7.2429E-005$$

$$R = 0.9999$$

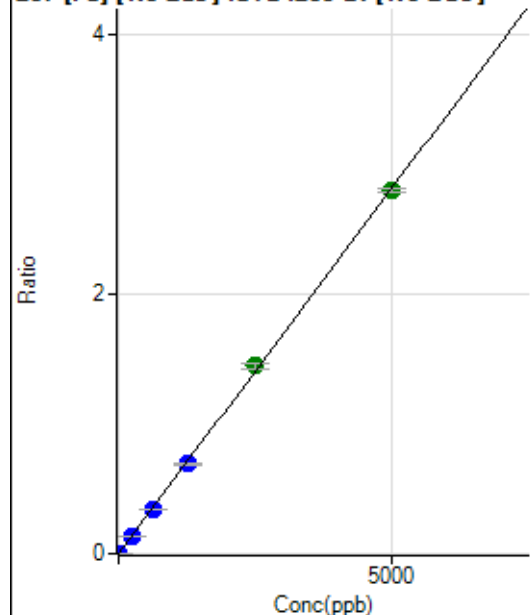
$$DL = 0.0805$$

$$BEC = 0.1161$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	96.30	0.0001	P	24.3
2	☐	1.000	0.874	766.71	0.0006	P	7.7
3	☐	250.000	245.305	192577.01	0.1380	P	1.6
4	☐	625.000	614.984	487627.27	0.3458	P	1.2
5	☐	1250.000	1227.152	995962.13	0.6900	P	0.6
6	☐	2500.000	2573.100	2129705.33	1.4467	A	2.7
7	☐	5000.000	4970.649	4203985.69	2.7947	A	1.0
8	☐			8191.64	0.0056	P	4.1

$$y = 5.6222\text{E-}004 * x + 6.9764\text{E-}005$$

$$R = 0.9998$$

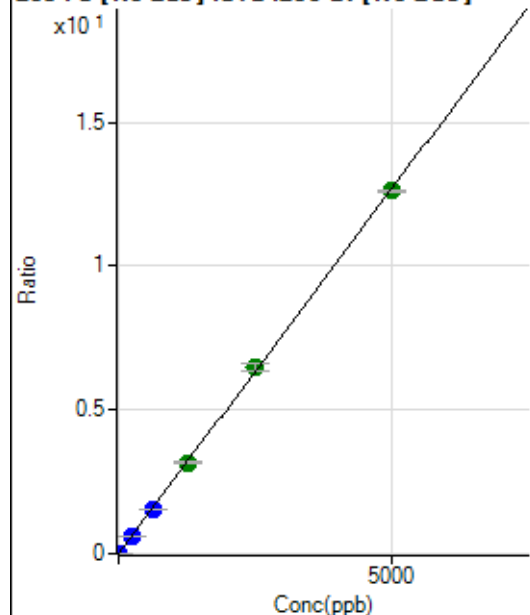
$$DL = 0.09038$$

$$BEC = 0.1241$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	411.12	0.0003	P	12.2
2	☐	1.000	0.941	3665.09	0.0027	P	1.5
3	☐	250.000	244.897	866797.40	0.6211	P	1.0
4	☐	625.000	613.786	2194108.56	1.5561	P	1.3
5	☐	1250.000	1246.975	4562768.89	3.1611	A	1.2
6	☐	2500.000	2554.516	9529058.33	6.4755	A	4.2
7	☐	5000.000	4975.155	18971399.68	12.6113	A	0.7
8	☐			36758.05	0.0249	P	1.0

$$y = 0.0025 * x + 2.9740\text{E-}004$$

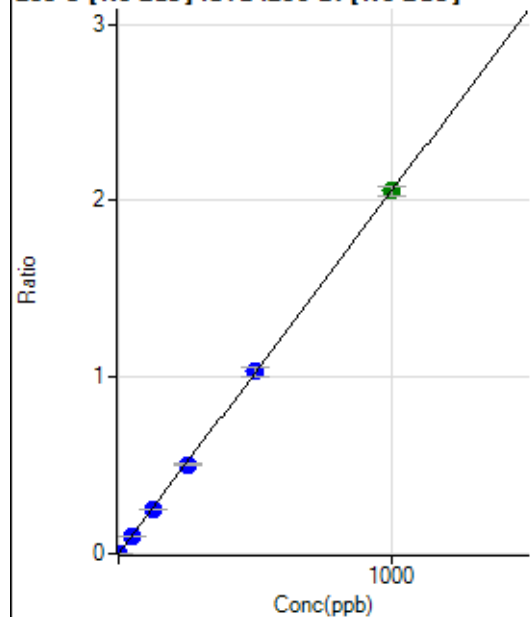
$$R = 0.9999$$

$$DL = 0.04293$$

$$BEC = 0.1173$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	23.2
2	☐	1.000	1.038	2950.45	0.0022	P	8.1
3	☐	50.000	48.797	139992.24	0.1003	P	1.3
4	☐	125.000	123.211	357061.05	0.2532	P	0.8
5	☐	250.000	244.692	725801.32	0.5028	P	1.6
6	☐	500.000	501.866	1517362.03	1.0313	P	5.0
7	☐	1000.000	1000.678	3093033.69	2.0563	A	2.3
8	☐			441.69	0.0003	P	21.1

$$y = 0.0021 * x + 2.8057E-005$$

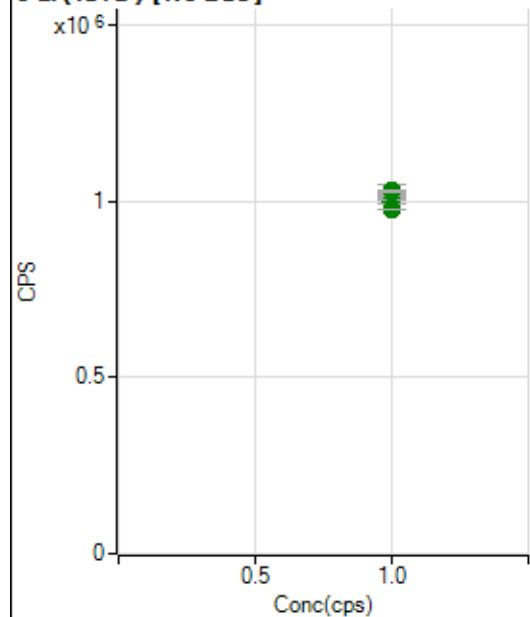
$$R = 1.0000$$

$$DL = 0.009515$$

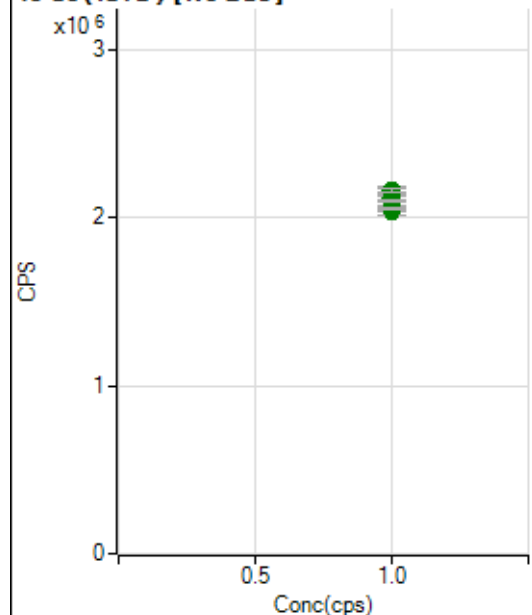
$$BEC = 0.01365$$

Weight: <None>

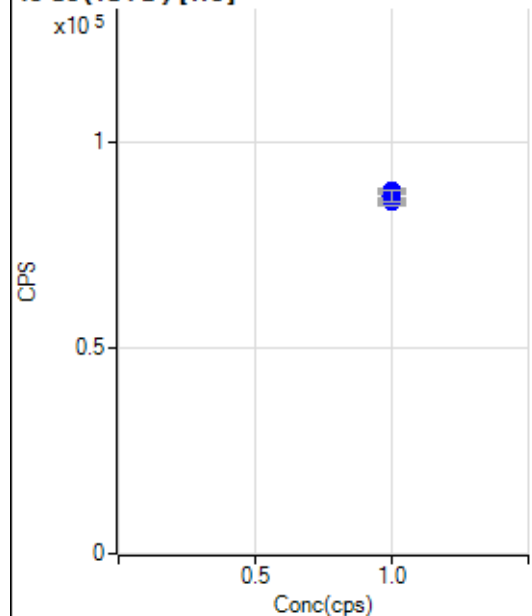
Min Conc: 0

6 Li (ISTD) [No Gas]

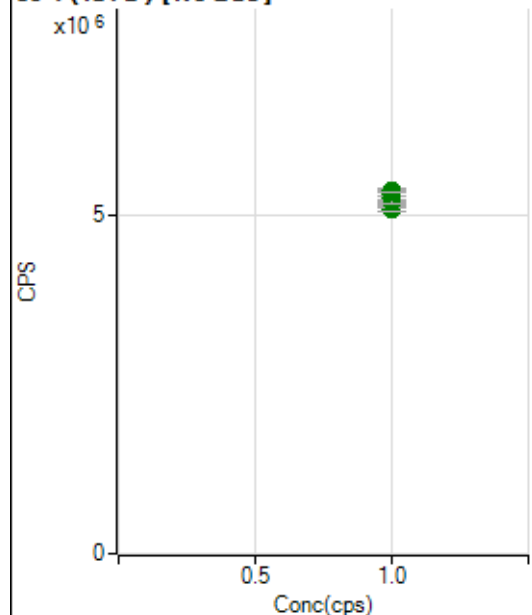
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		996768.63		A	1.1
2	☐	1.000		1000187.09		A	1.7
3	☐	1.000		1000335.86		A	1.5
4	☐	1.000		1015605.72		A	2.4
5	☐	1.000		1025482.98		A	1.4
6	☐	1.000		1028379.41		A	3.2
7	☐	1.000		1027667.30		A	0.4
8	☐	1.000		976342.60		A	0.3

45 Sc (ISTD) [No Gas]

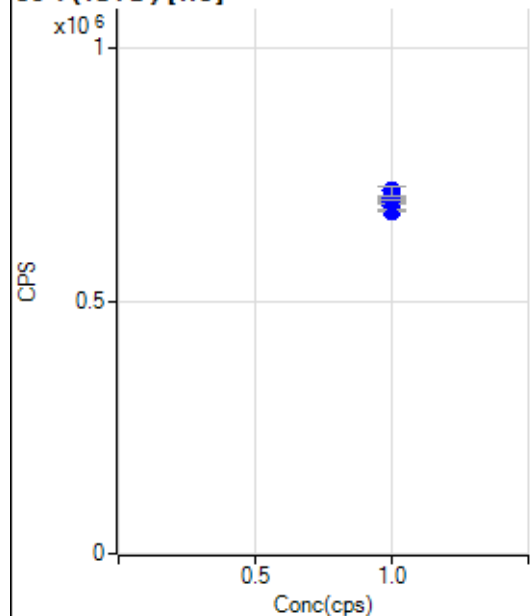
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2033670.09		A	0.2
2	☐	1.000		2044469.10		A	3.0
3	☐	1.000		2049038.11		A	1.3
4	☐	1.000		2054312.48		A	0.9
5	☐	1.000		2111657.10		A	1.2
6	☐	1.000		2145897.31		A	3.9
7	☐	1.000		2158726.03		A	1.6
8	☐	1.000		2157479.10		A	1.1

45 Sc (ISTD) [He]

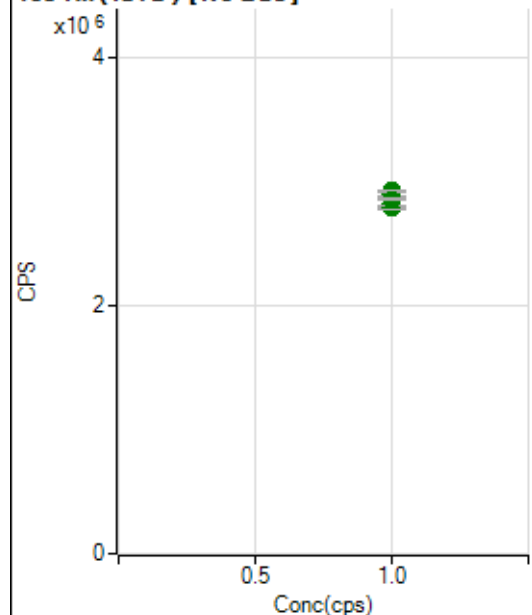
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		85562.95		P	0.9
2	☐	1.000		86409.13		P	3.1
3	☐	1.000		88128.09		P	1.3
4	☐	1.000		88083.56		P	0.7
5	☐	1.000		86896.32		P	1.6
6	☐	1.000		85507.92		P	1.9
7	☐	1.000		87108.78		P	1.8
8	☐	1.000		86792.42		P	3.0

89 Y (ISTD) [No Gas]

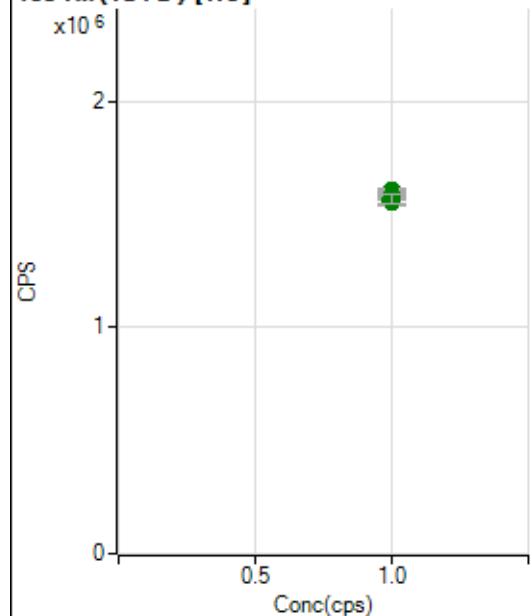
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5137575.93		A	0.5
2	☐	1.000		5077025.62		A	1.1
3	☐	1.000		5228140.10		A	0.5
4	☐	1.000		5192112.95		A	0.6
5	☐	1.000		5327097.42		A	1.3
6	☐	1.000		5264706.10		A	3.1
7	☐	1.000		5361806.45		A	1.0
8	☐	1.000		5339924.50		A	0.3

89 Y (ISTD) [He]

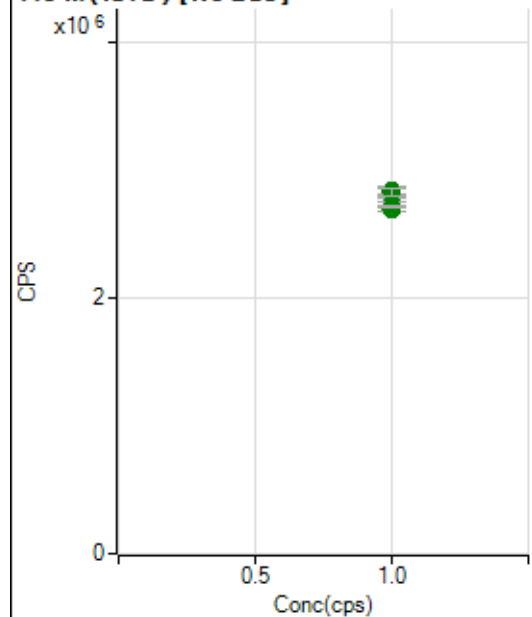
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		679521.97		P	1.0
2	☐	1.000		687771.69		P	1.9
3	☐	1.000		698379.10		P	0.8
4	☐	1.000		703122.58		P	0.8
5	☐	1.000		699231.61		P	2.0
6	☐	1.000		696645.18		P	0.7
7	☐	1.000		705627.47		P	1.2
8	☐	1.000		718488.39		P	2.8

103 Rh (ISTD) [No Gas]

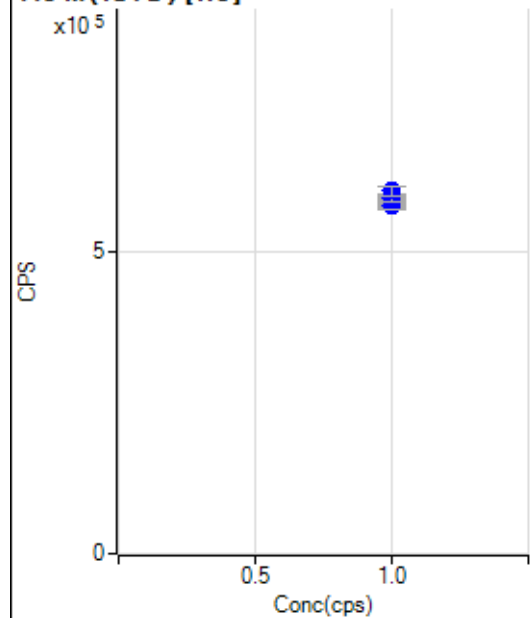
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2794139.34		A	0.8
2	☐	1.000		2818181.53		A	2.2
3	☐	1.000		2797309.46		A	1.1
4	☐	1.000		2816731.12		A	2.6
5	☐	1.000		2900406.25		A	1.3
6	☐	1.000		2864090.21		A	4.2
7	☐	1.000		2926810.85		A	0.5
8	☐	1.000		2859821.29		A	0.5

103 Rh (ISTD) [He]

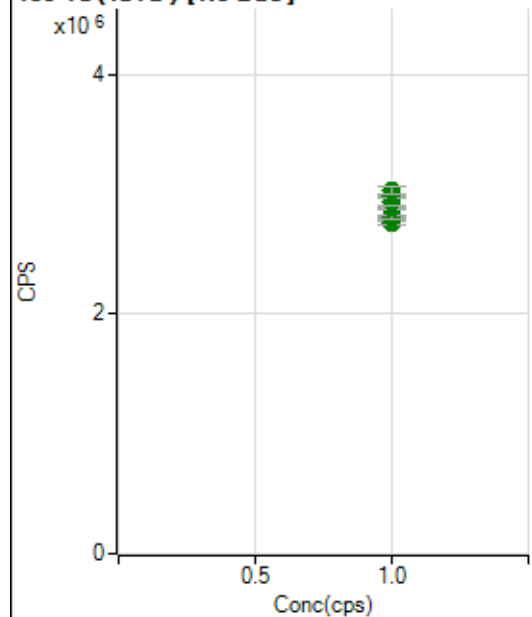
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1567202.03		A	0.8
2	☐	1.000		1556651.37		A	2.3
3	☐	1.000		1604547.11		A	0.9
4	☐	1.000		1579811.66		A	0.7
5	☐	1.000		1590086.92		A	2.5
6	☐	1.000		1579678.24		A	0.3
7	☐	1.000		1574345.27		A	0.7
8	☐	1.000		1565940.06		A	2.6

115 In (ISTD) [No Gas]

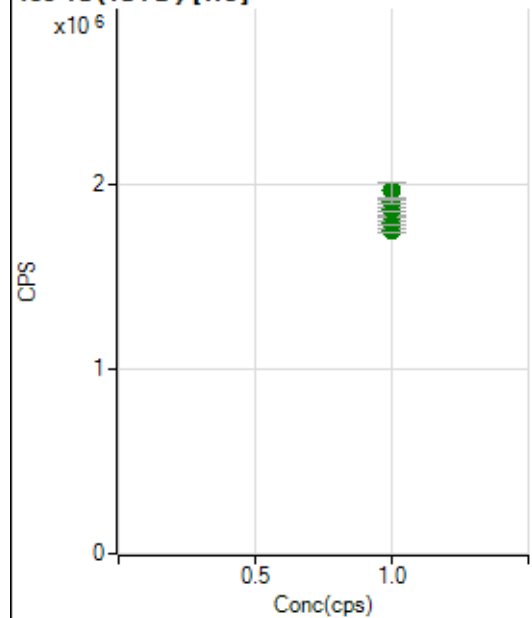
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2709803.47		A	2.5
2	☐	1.000		2690230.19		A	1.7
3	☐	1.000		2781666.24		A	2.2
4	☐	1.000		2709770.74		A	0.8
5	☐	1.000		2794812.43		A	1.1
6	☐	1.000		2822348.77		A	2.6
7	☐	1.000		2832950.09		A	2.1
8	☐	1.000		2822496.14		A	2.0

115 In (ISTD) [He]

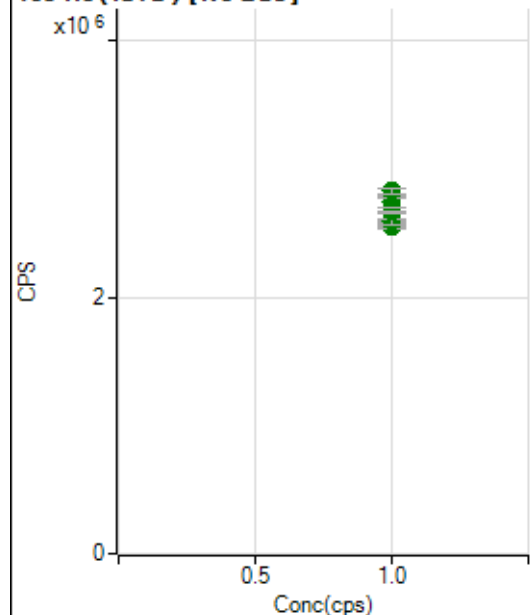
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		575636.37		P	0.8
2	☐	1.000		575075.98		P	1.9
3	☐	1.000		587459.02		P	0.9
4	☐	1.000		592144.44		P	1.0
5	☐	1.000		588665.96		P	1.2
6	☐	1.000		585352.28		P	0.5
7	☐	1.000		589517.76		P	1.7
8	☐	1.000		600899.11		P	2.7

159 Tb (ISTD) [No Gas]

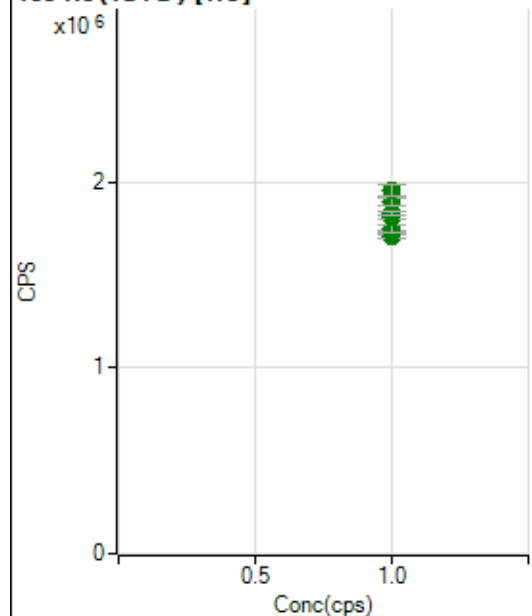
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2784563.85		A	0.7
2	☐	1.000		2773702.25		A	2.2
3	☐	1.000		2762010.41		A	1.1
4	☐	1.000		2809631.07		A	1.0
5	☐	1.000		2880237.80		A	0.5
6	☐	1.000		2941847.77		A	3.2
7	☐	1.000		2982774.82		A	1.3
8	☐	1.000		3025356.31		A	2.2

159 Tb (ISTD) [He]

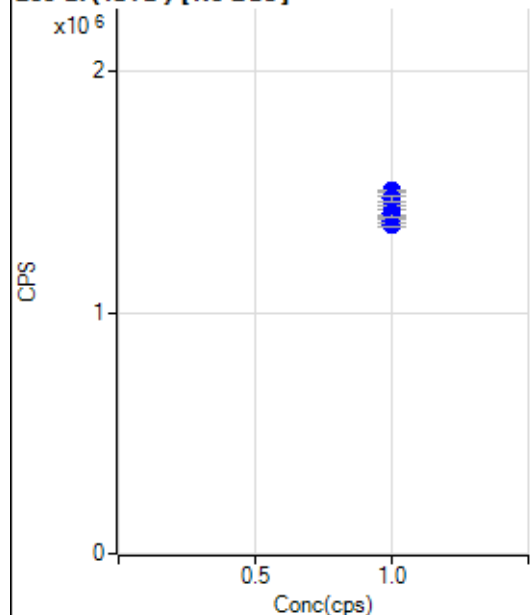
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1751105.61		A	0.9
2	☐	1.000		1747922.21		A	1.1
3	☐	1.000		1793119.89		A	1.2
4	☐	1.000		1830650.74		A	0.5
5	☐	1.000		1872827.49		A	2.3
6	☐	1.000		1864047.46		A	1.0
7	☐	1.000		1904266.28		A	0.8
8	☐	1.000		1965212.94		A	4.2

165 Ho (ISTD) [No Gas]

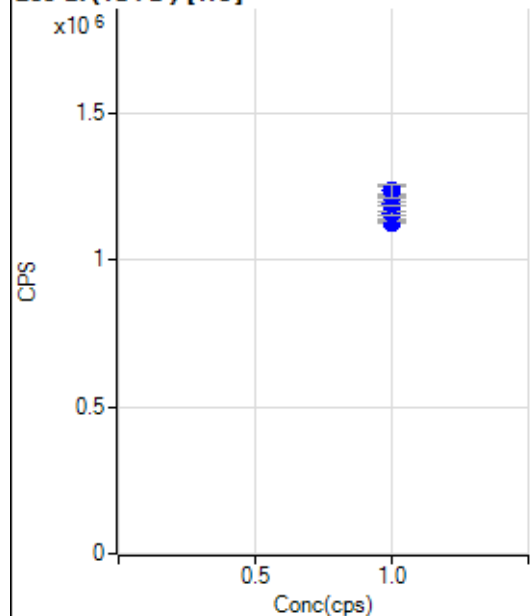
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2555124.19		A	0.6
2	☐	1.000		2563524.92		A	2.7
3	☐	1.000		2598783.83		A	1.3
4	☐	1.000		2593706.16		A	1.6
5	☐	1.000		2665873.76		A	0.4
6	☐	1.000		2745234.67		A	3.7
7	☐	1.000		2772957.51		A	0.2
8	☐	1.000		2830821.68		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1707749.89		A	0.8
2	☐	1.000		1732742.78		A	0.8
3	☐	1.000		1748705.11		A	1.9
4	☐	1.000		1809184.50		A	0.9
5	☐	1.000		1812668.97		A	1.1
6	☐	1.000		1834952.11		A	1.2
7	☐	1.000		1893743.10		A	2.1
8	☐	1.000		1953516.22		A	3.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1382998.64		P	1.4
2	☐	1.000		1366565.18		P	1.2
3	☐	1.000		1395698.26		P	1.0
4	☐	1.000		1410218.92		P	2.0
5	☐	1.000		1443456.28		P	0.5
6	☐	1.000		1473095.85		P	3.7
7	☐	1.000		1504378.00		P	0.9
8	☐	1.000		1473383.41		P	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1129503.52		P	0.8
2	☐	1.000		1135865.08		P	0.9
3	☐	1.000		1162150.51		P	1.2
4	☐	1.000		1193322.51		P	1.2
5	☐	1.000		1220144.83		P	1.3
6	☐	1.000		1218986.40		P	1.2
7	☐	1.000		1236009.56		P	2.3
8	☐	1.000		1235213.94		P	3.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8021521MS.b
Acq. Date-Time 2021-02-15 10:40:50
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2969	29688.47			1.717	5.000
24		37348	373478.36			1.204	5.000
25		5228	52283.62			1.057	5.000
26		5972	59721.55			1.381	5.000
59		6446	64462.01			1.065	5.000
113		2386	23861.80			1.538	5.000
115		8107	81072.62			1.802	5.000
206		2208	22079.82			1.437	5.000
207		1848	18479.29			1.438	5.000
208		4549	45491.23			1.087	5.000
220		1	9.80			30.740	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

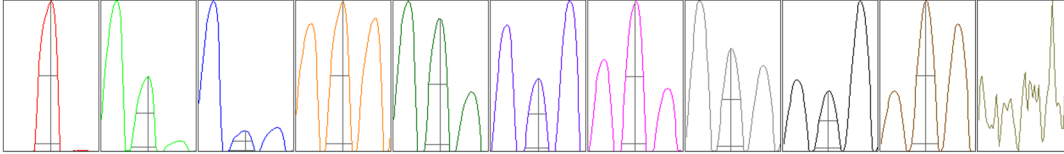
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3040	2990	2902	2951	2962
24	37820	37585	36709	37069	37556
25	5292	5232	5140	5230	5247
26	6093	5982	5861	5963	5962
59	6463	6441	6332	6507	6488
113	2437	2367	2347	2369	2411
115	8354	8094	7967	8055	8066
206	2241	2190	2162	2225	2222
207	1860	1845	1809	1845	1881
208	4574	4517	4484	4560	4610

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5190.76	9.00	8.90 - 9.10	
24	68023.02	24.00	23.90 - 24.10	
25	9060.22	25.00	24.90 - 25.10	
26	10678.69	26.00	25.90 - 26.10	
59	11743.08	59.00	58.90 - 59.10	
113	4529.51	113.05	112.90 - 113.10	
115	15297.56	115.00	114.90 - 115.10	
206	3991.69	205.95	205.90 - 206.10	
207	3339.02	206.95	206.90 - 207.10	
208	8391.98	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.782	0.900	
24	0.58	0.783	0.900	
25	0.61	0.790	0.900	
26	0.60	0.819	0.900	
59	0.58	0.773	0.900	
113	0.55	0.739	0.900	
115	0.54	0.772	0.900	
206	0.58	0.821	0.900	
207	0.57	0.824	0.900	
208	0.57	0.839	0.900	
220	0.68			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	6.7 V	Deflect	14.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1455	14551.98			4.537	
89		8208	82076.16			4.646	
205		2565	25652.07			3.553	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1477	1517	1343	1475	1465
89	8340	8594	7573	8317	8214
205	2618	2656	2417	2578	2558

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	6.7 V	Deflect	5.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V